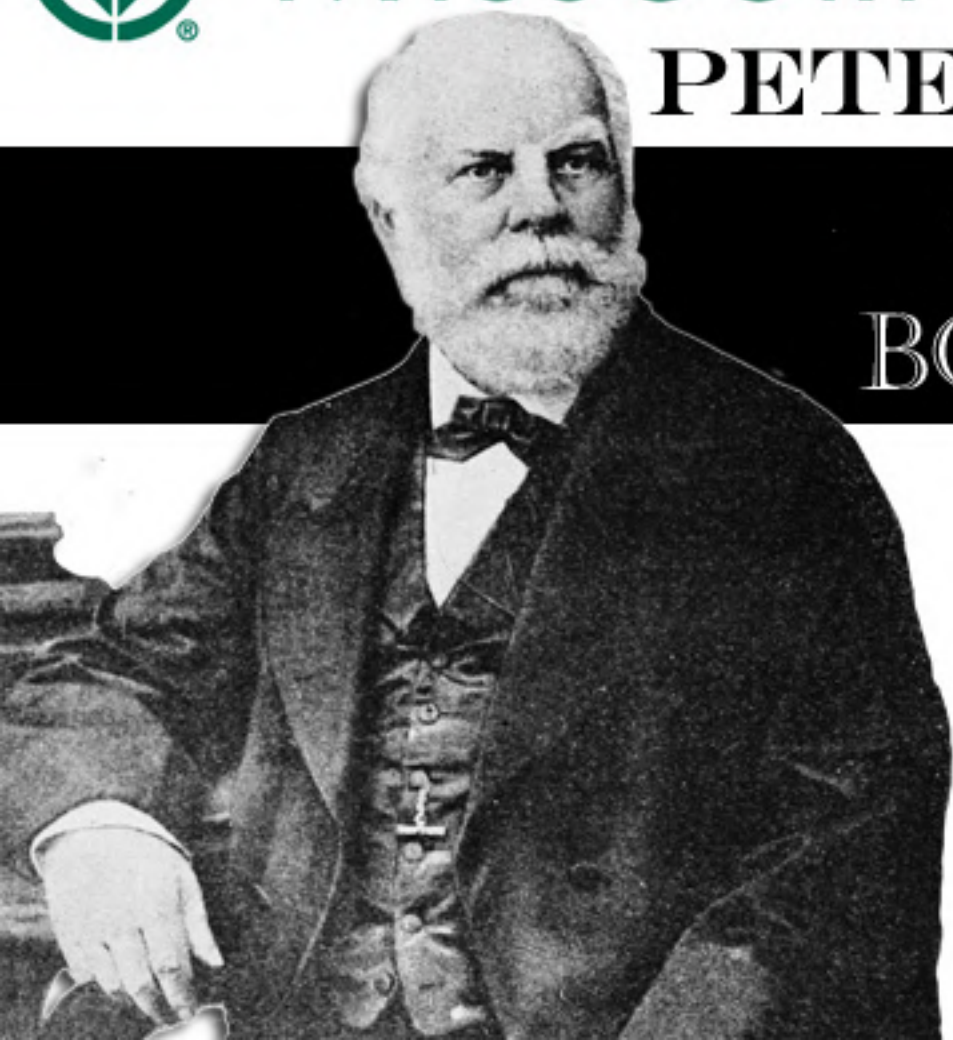


PETER H. RAVEN LIBRARY

GEORGE ENGELMANN  
BOTANICAL NOTEBOOKS



*Pagination Note:*

*Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.*

- Potentilla procumbens Sibth. p.  
 — pulcherrima Lehm. p.  
 — pyrenaica Ram. p.  
 — recta L. p.  
 — —  $\beta$ . laciniosa Koch p.  
 — —  $\gamma$ . obscura Lehm. p.  
 — —  $\delta$ . pallida Lehm. p.  
 — rupestris L. p.  
 — supina L. a.  
 — umbrosa Stev. p.  
 Poterium muricatum Spach p.  
 — —  $\beta$ . stenolephum Spach p.  
 Rosa acicularis Lindl. l.  
 — alpina L. l.  
 — cinnamomea L. l.  
 — gallica L. l.  
 — nitida Lindl. l.  
 — rubrifolia Vill.  $\beta$ . livida Koch l.  
 — rugosa Thbg. l.  
 — tomentosa Sm. l.  
 Rubus fruticosus L.  $\beta$ . coryli-folius Koch l.  
 — —  $\gamma$ . laciniatus l.  
 Sanguisorba alpina Bnge. p.  
 — dodecandra Moretti p.  
 — media L. p.  
 — sitchensis C. A. Mey. p.  
 — tenuifolia Fisch. p.  
 Sibbaldia procumbens L. p.  
 Spiraea alba Duroi l.  
 — bella Sims. l.  
 — callosa Thbg. l.  
 — —  $\alpha$ . typica l.  
 — —  $\beta$ . alba l.  
 — —  $\gamma$ . Foxi l.  
 — —  $\delta$ . glabra l.  
 — —  $\epsilon$ . parviflora l.  
 — —  $\zeta$ . ruberrima l.  
 — —  $\eta$ . semperflorens l.  
 — cana W. et K. l.  
 — —  $\beta$ . savranica l.  
 — carpinifolia Willd. l.  
 — — var. rosea l.  
 — chamaedrifolia L. l.  
 — —  $\beta$ . ulmifolia l.  
 — confusa Rgl. et Kcke. l.  
 — —  $\beta$ . mollis Koch l.  
 — crenata Willd. l.  
 — digitata W. p.  
 — Douglasi Hook. l.

- Spiraea laevigata L. l.  
 — lobata Murr. p.  
 — media Schmdt. l.  
 — Nobleana Hook. l.  
 — oblongifolia W. et K. l.  
 — obovata W. et K. l.  
 — opulifolia L. l.  
 — Pallasi Rgl. et Tiling l.  
 — salicifolia L. l.  
 — —  $\beta$ . bethlemensis l.  
 — —  $\gamma$ . Billardieri l.  
 — —  $\delta$ . eximia l.  
 — —  $\epsilon$ . Linneana l.  
 — —  $\theta$ . rosea l.  
 — —  $\xi$ . semperflorens l.  
 — tomentosa L. l.  
 — triloba L. l.  
 — Ulmaria L. fol. variegatis p.

### Amygdaleae.

- Prunus lusitana L. l. fr.  
 — Padus L. l.  
 — virginiana L. l.

### Papilionaceae.

- Abrus precatorius L. l. fr.  
 Anthyllis Barba Jovis L. l. fr.  
 — tetraphylla L. a.  
 Astragalus alopecuroides L. p.  
 — Cicer L. p.  
 — contortuplicatus L. p.  
 — falcatus Lam. p.  
 — glycyphyllos L. p.  
 — hamosus L. a.  
 — sulcatus L. p.  
 Baptisia australis R. Br. p.  
 Biserrula Pelecinus L. a.  
 Boissiaea heterophylla Bth. l. fr.  
 Callistachys lanceolata Vent. l. fr.  
 — linearis Bth. l. fr.  
 Caragana arborescens Lam. l.  
 — frutescens D. C. l.  
 — —  $\beta$ . grandiflora Rgl. l.  
 — —  $\gamma$ . stipulis spinescentibus Rgl. l.  
 — jubata Poir. l.  
 — microphylla Lam. l.  
 — pygmaea D. C. l.  
 Cicer arietinum L. a.



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

- 5709
- Cytisus chrysobotrys* F. et Mey.  
1. fr.  
— *elongatus* W. et K. l.  
— *filipes* Webb l. fr.  
— *hirsutus* L. l.  
— *Laburnum* L. l.  
— —  $\beta$ . *purpureus* l.  
— *nigricans* L. l.  
— *ratibonensis* Schaeff.  $\beta$ .  
minor l.  
*Dolichos monachalis* Brot. a. fr.  
*Dorycnium pentaphyllum* Scop. p.  
*Ervum hirsutum* L. a.  
— *nigricans* M. B. a.  
— *parviflorum* Bertol. a.  
— *Terroni* Ten. a.  
— *tetraspermum* L. a.  
— *vicioides* Desf. a.  
*Galega officinalis* L. p.  
— — fl. albo p.  
— *orientalis* Lam. p.  
*Genista canariensis* L. l. fr.  
— *candicans* L. l. fr.  
— —  $\beta$ . *subspicata* Webb l. fr.  
— —  $\gamma$ . *umbellata* Webb l. fr.  
— *congesta* Lk. l. fr.  
— *ramosissima* Webb l. fr.  
— *Spachiana* Webb l. fr.  
— *tinctoria* L. l.  
*Glycine clandestina* Wendl. l. fr.  
*Goodia lotifolia* Salisb. l. fr.  
— *medicaginea* F. Müll. l. fr.  
*Hedysarum obscurum* L. p.  
— *sibiricum* Poir. p.  
*Lathyrus angulatus* L. a.  
— *annuus* L. a.  
— *Cicer* L. a.  
— *Clymenum* L. a.  
— *pisiformis* L. p.  
— *purpureus* Desf. a.  
— *sativus* L. a.  
— *sylvestris* L. p.  
— *tingitanus* L.  $\beta$ . *uniflorus*  
Ser. a.  
*Lotus coimbricensis* Brot. a.  
— *corniculatus* L.  $\beta$ . *hirsu-*  
*tissimus* p.  
— —  $\gamma$ . *japonicus* Rgl. p.  
*Lupinus albus* L. a.  
— *Barkeri* Lindl. a.  
— *bicolor* Lindl. a.  
*Lupinus elegans* H. B. K. a.  
— —  $\beta$ . *hybridus* Rgl. a.  
— *nanus* Bth. a.  
— *nootkaensis* Don. p.  
— *polyphyllus* Lindl. p.  
— — var. *subhirsutus* p.  
— *pubescens* Bth. a.  
*Medicago aculeata* W.  $\alpha$ . *catalo-*  
*nica* Schrank a.  
— *Biancae* Tod. a.  
— *ciliaris* W. a.  
— *denticulata* W. a.  
— *falcata* L.  $\beta$ . *ambigua*  
Trautv. p.  
— —  $\gamma$ . *versicolor* Koch p.  
— *Gerardi* W. et K. a.  
— *lappacea* Lam. a.  
— *nigra* W. a.  
— *nummularia* D. C. a.  
— *platycarpa* Ledb. p.  
— *polycarpa* Gr. et Godr. a.  
— —  $\beta$ . *apiculata* Gr. et  
Godr. p.  
— *radiata* L. a.  
— *reticulata* Bth. a.  
— *scutellata* All. a.  
— *sphaerocarpa* Bertol. a.  
— *suffruticosa* Ram. p.  
— *tornata* W. a.  
— *tuberculata* W. a.  
— *turbinata* W. a.  
*Melilotus alba* Desv. b.  
— *coerulea* Lam. a.  
— *dentata* Pers. b.  
— *elegans* Salzm. a.  
— *macrorhiza* Pers. b.  
— *messanensis* Desf. a.  
— *officinalis* Lam. b.  
— *parviflora* Desf. a.  
— *ruthenica* M. B. p.  
— *speciosa* Durieu. a.  
*Ononis hircina* L.  $\beta$ . *spinescens*  
Ledb. p.  
*Ornithopus perpusillus* L.  $\beta$ . *in-*  
*termedius* Roth. a.  
*Orobus lathyroides* L. p.  
— *luteus* L.  $\beta$ . *orientalis* F.  
et Mey. p.  
— *niger* L. p.  
— *tuberosus* L. p.  
— —  $\beta$ . *tenuifolius* Koch p.



0 1 2 3 4 5 6 7 8 9 10

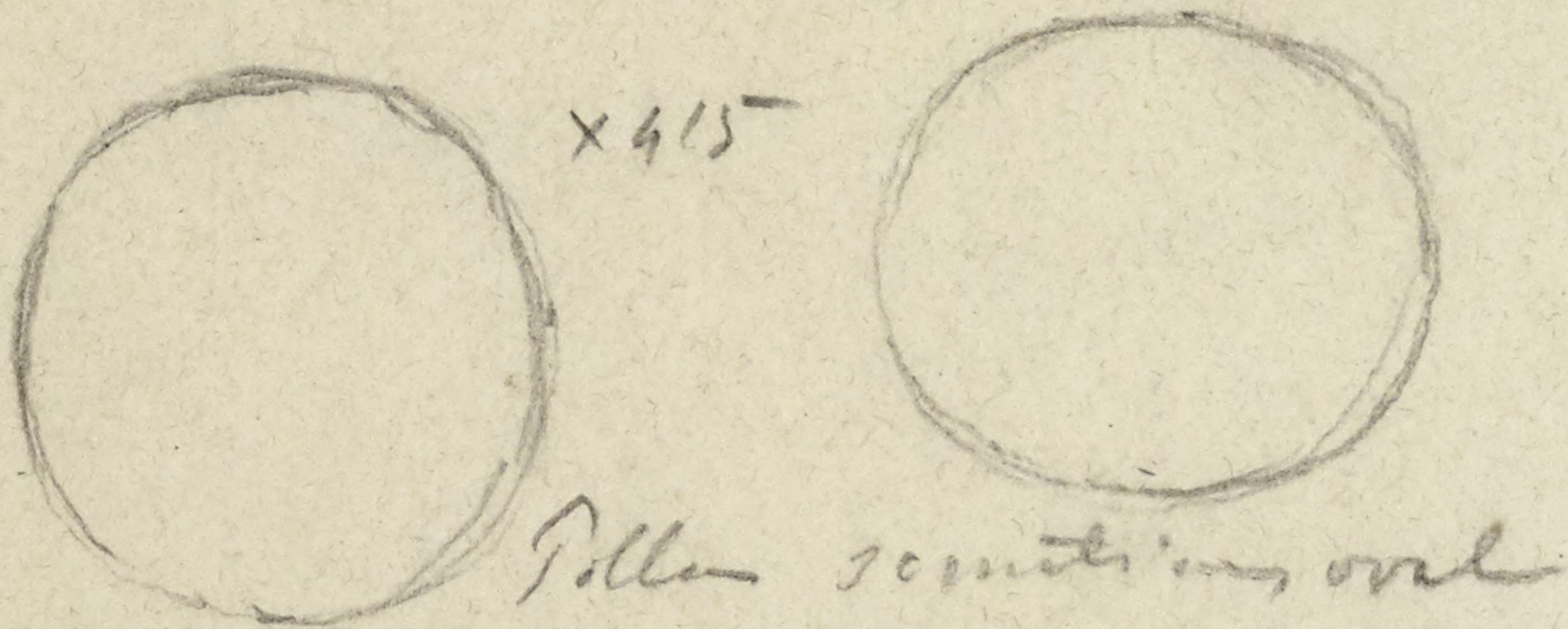
cm

copyright reserved

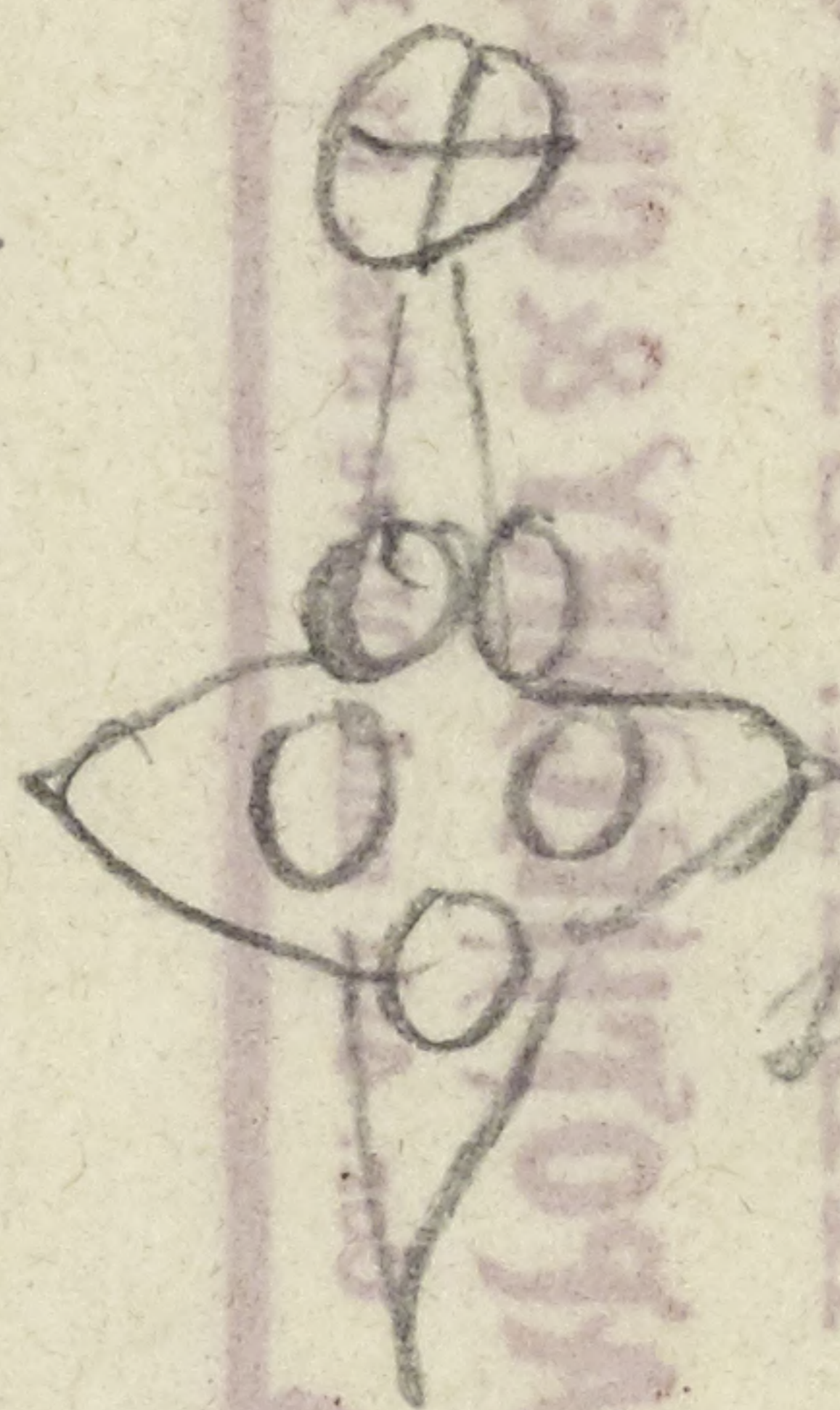
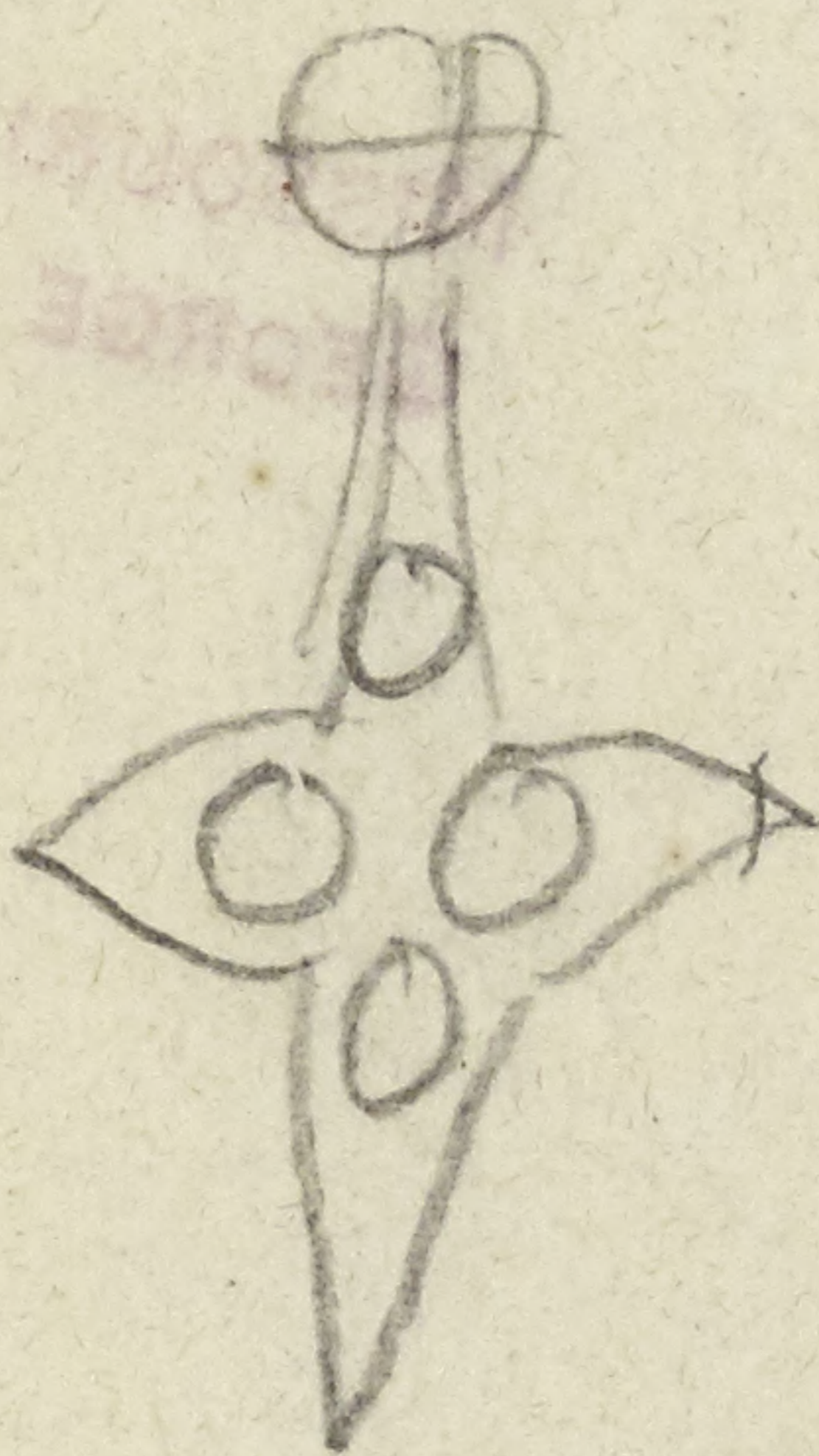
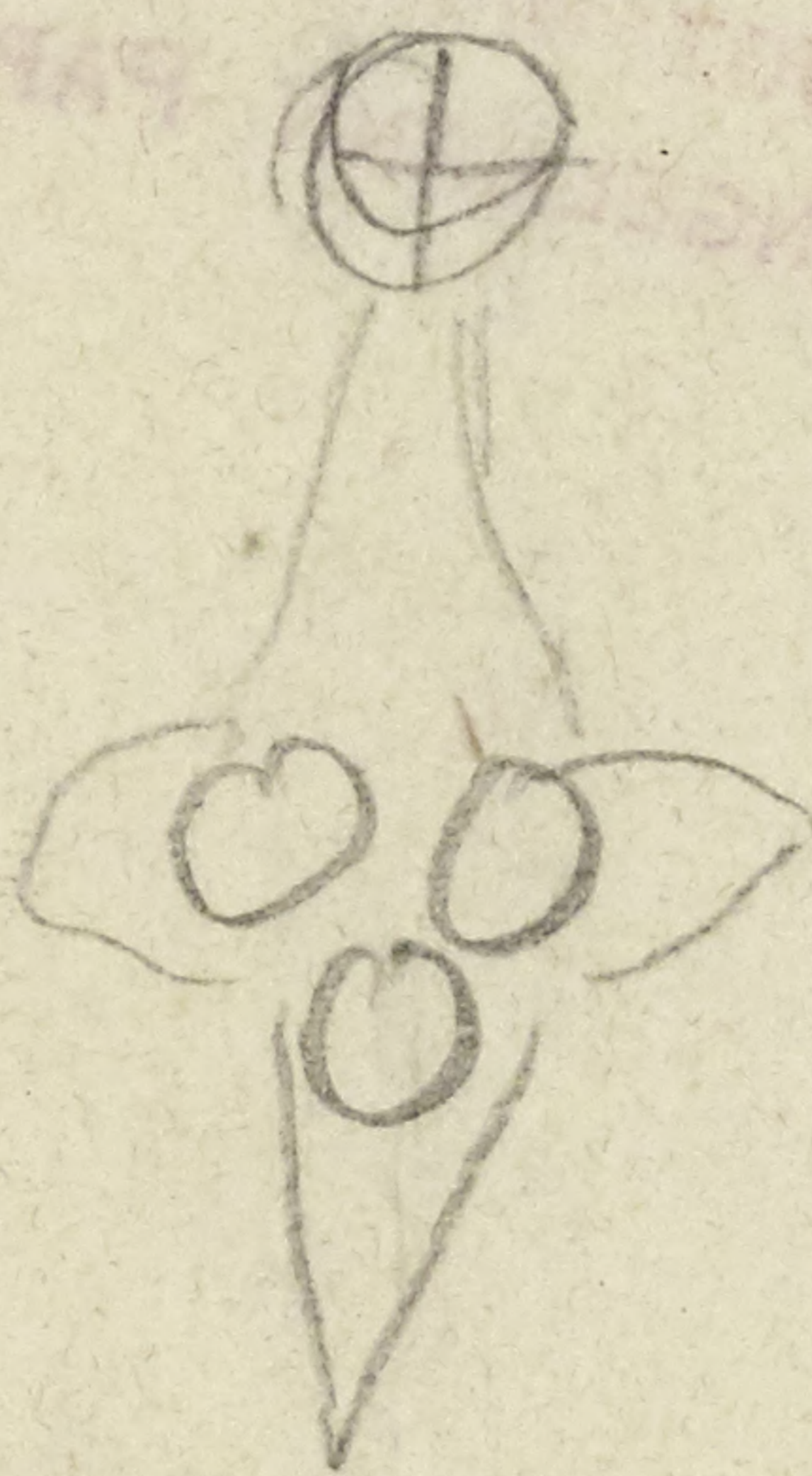
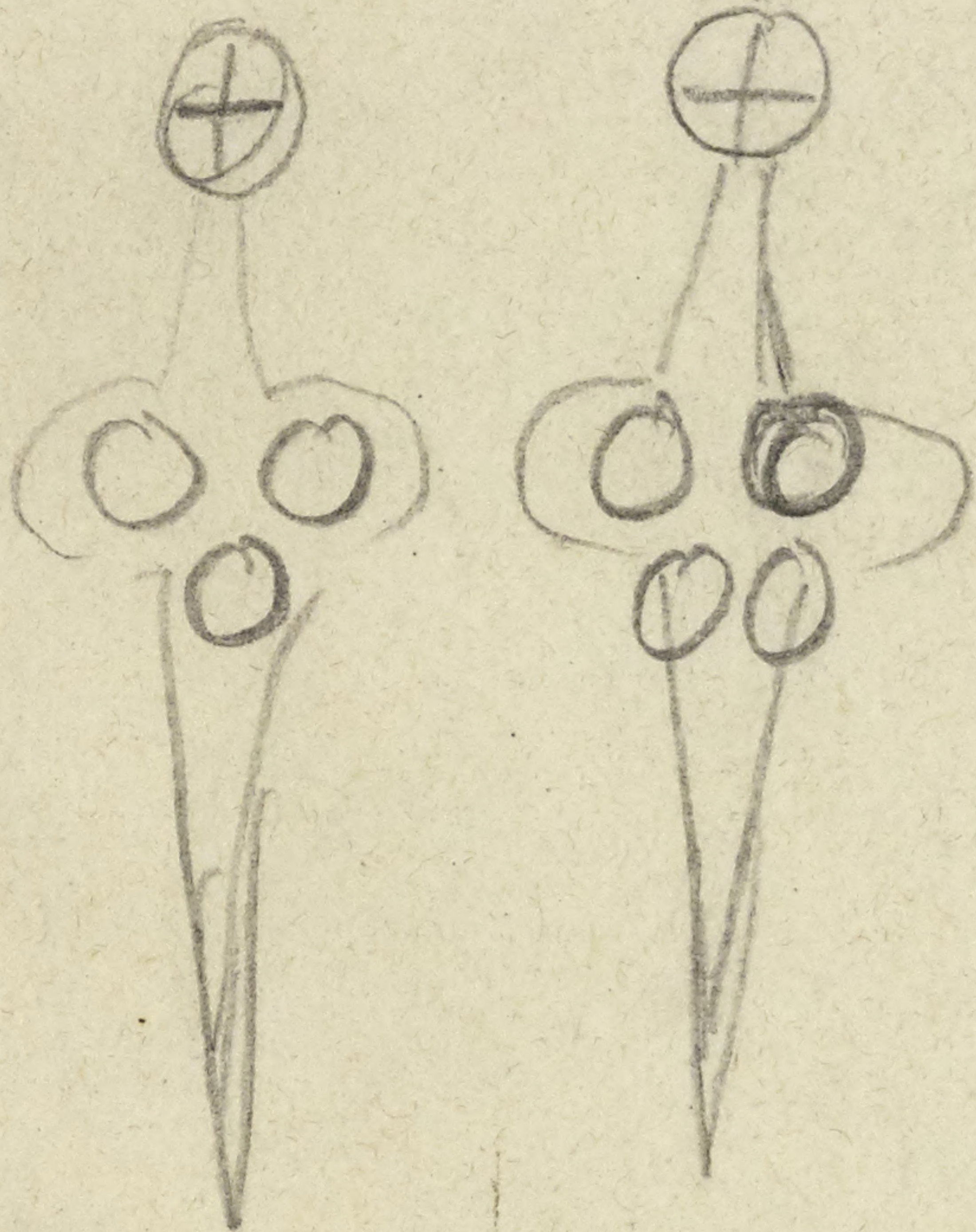


MISSOURI  
BOTANICAL  
GARDEN

*Carya olivacea*  
May 16 1865



calyx glandular  
anthers slightly hairy



seen only  
once

Illinois Town

Calottia

Stam 3-4 (rarely 5)



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

5710

CHEMIST

ALEX. LEITCH,  
APOTHECARY & CHEMIST,  
Cor. 4th and Olive Sts., St. Louis.

ALL THE NEW REMEDIES  
CONSTANTLY ON HAND

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

1153

*Carya amara*

May 16 1863

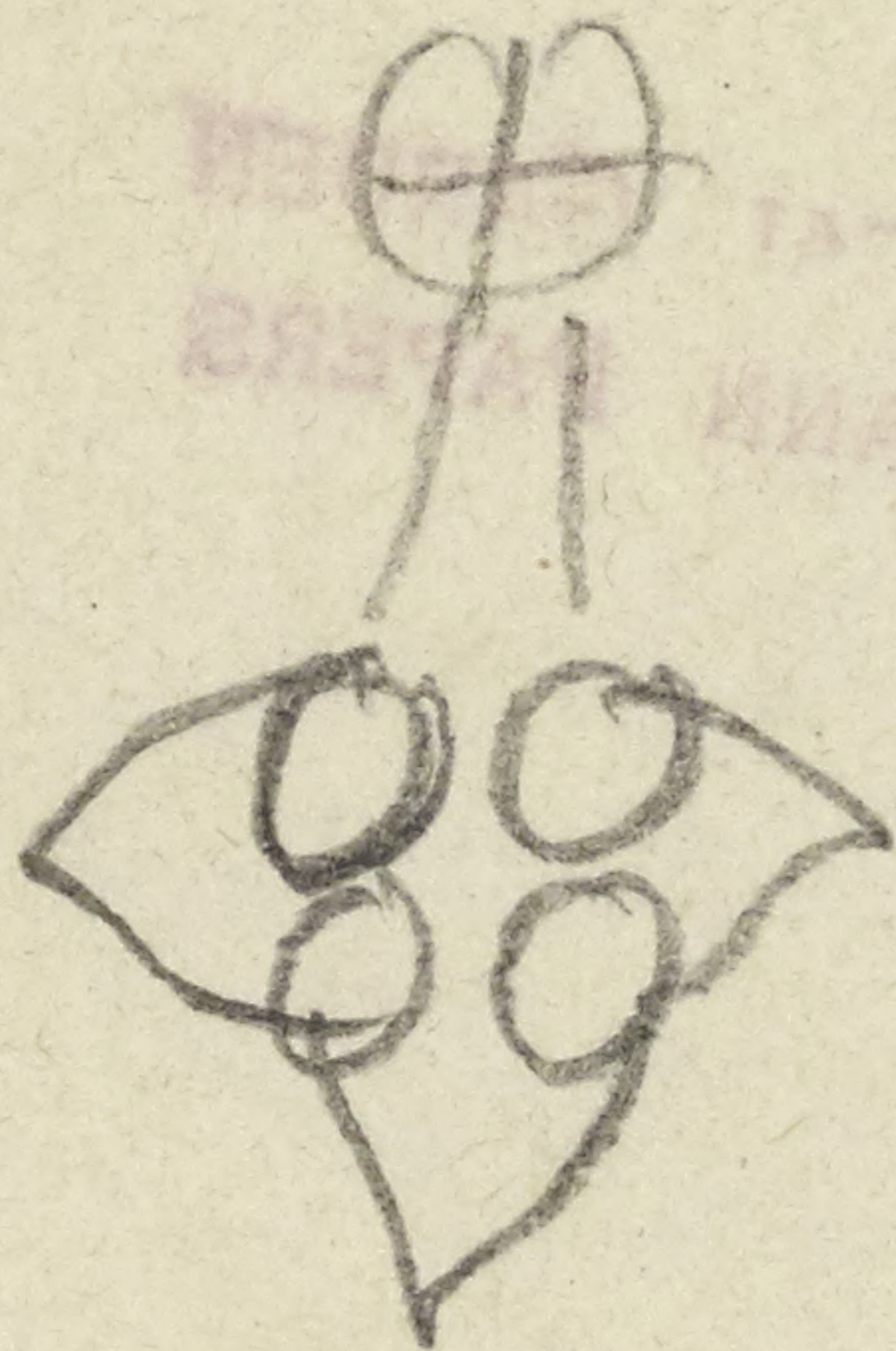
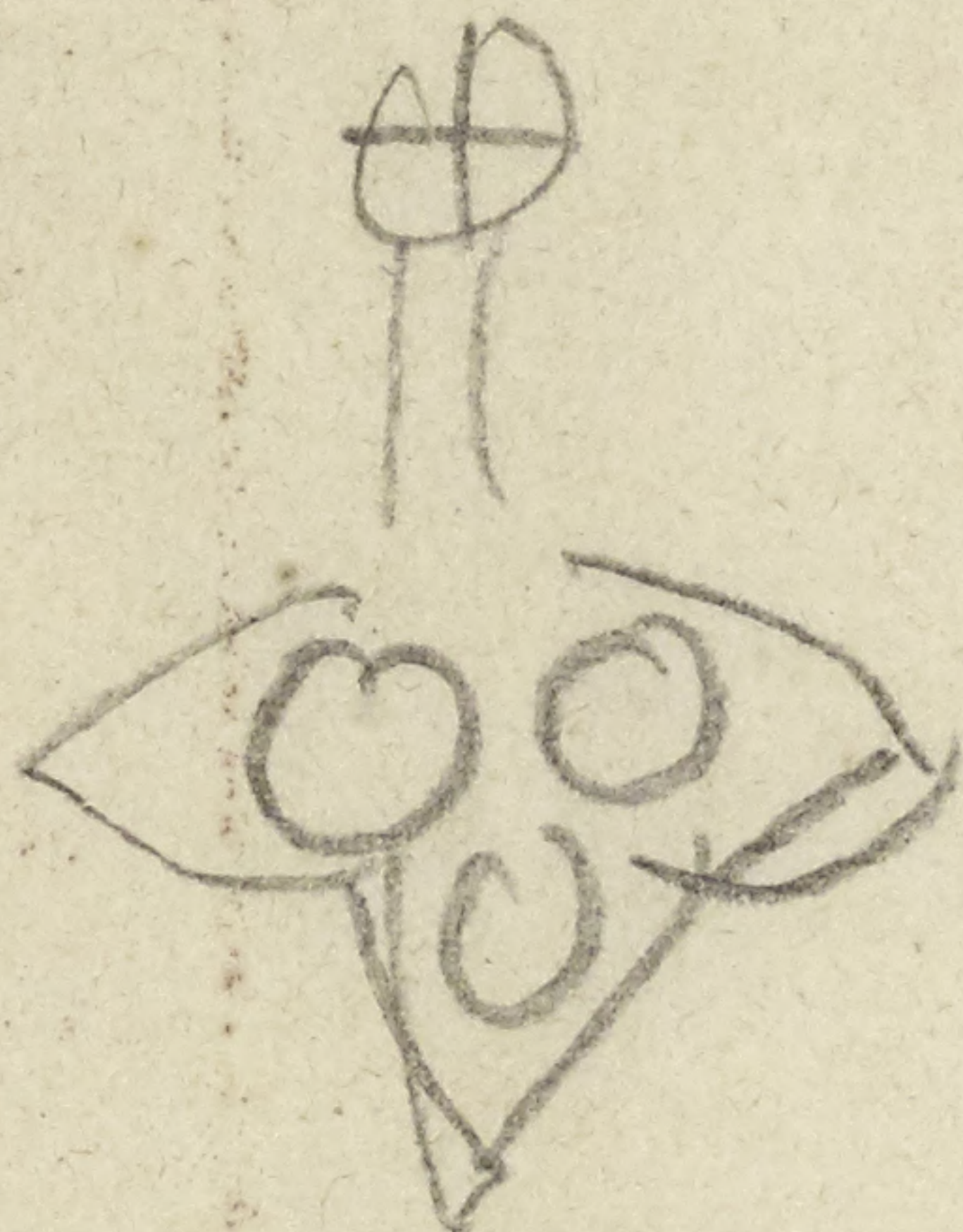


Ple



x 415

unusually large



calyx glandular

anther 3-4  
hairy

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

5711

CHEMIST

ALEX. LEITCH,  
APOTHECARY & CHEMIST,  
Cor. 4th and Olive Sts., St. Louis.

ALL THE NEW REMEDIES  
CONSTANTLY ON HAND

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

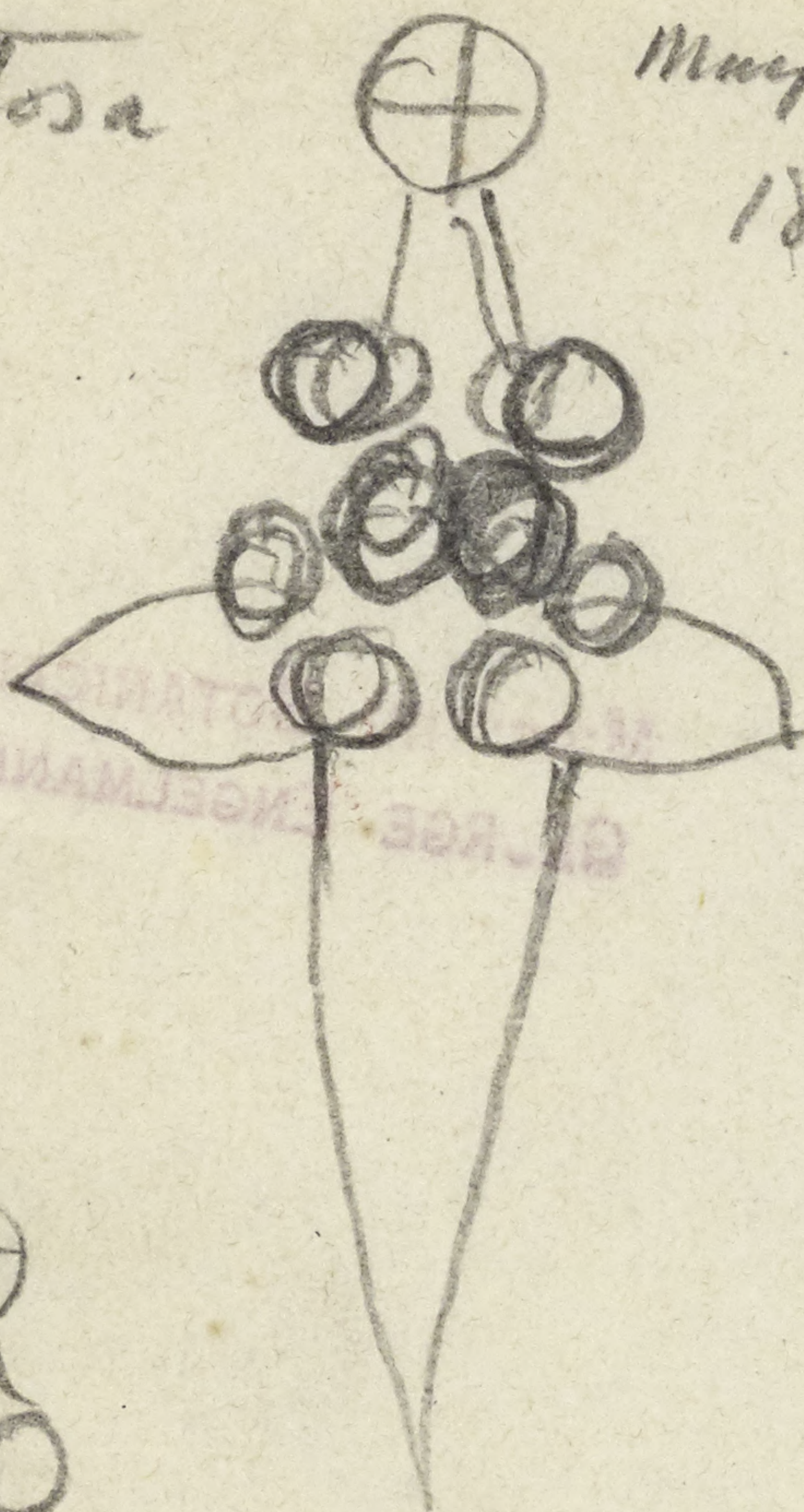
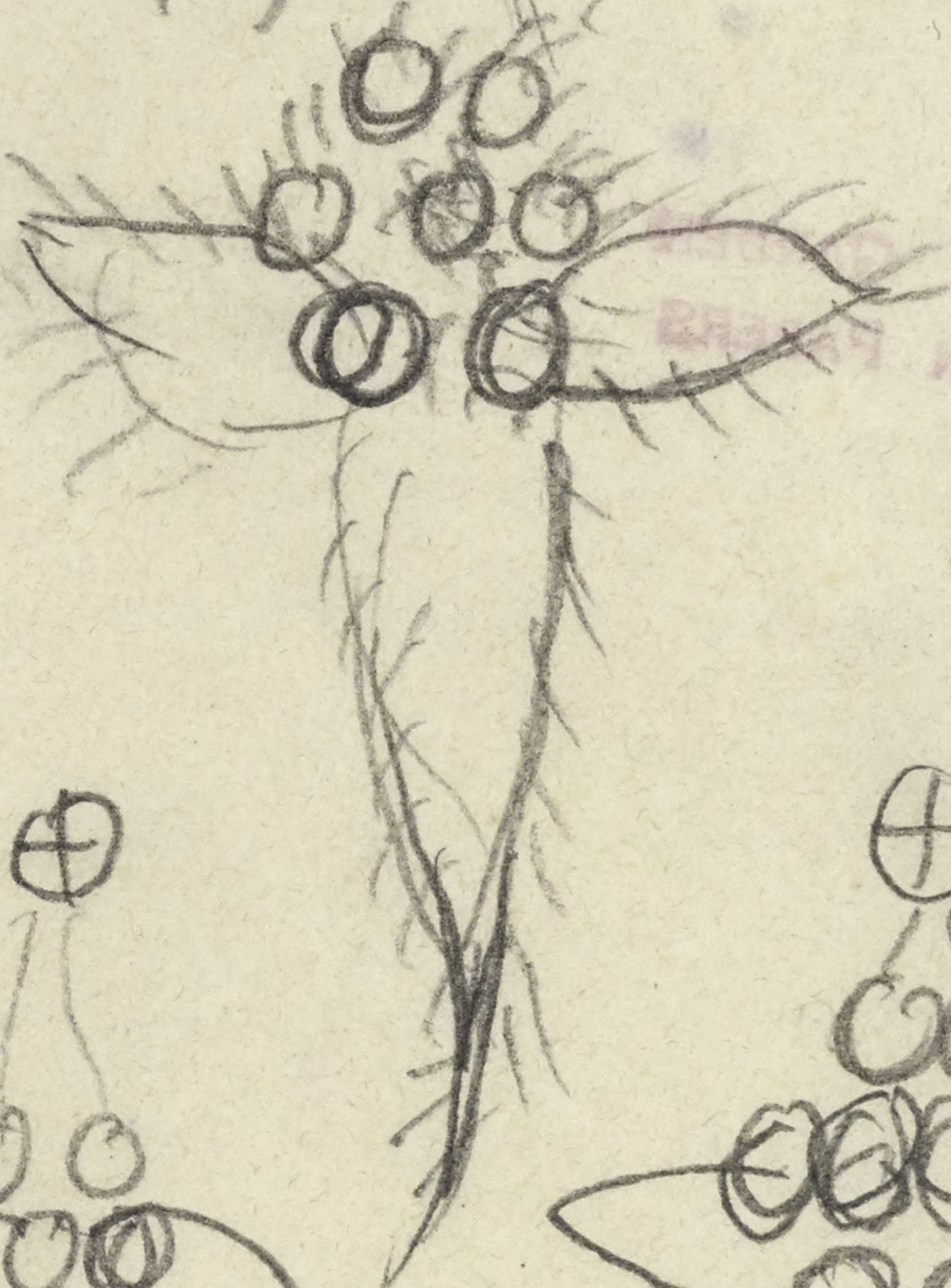
*Carya*



*tomentosa*

May 29  
1863

Corolla 7-9



Calyx & anther  
very hairy



Pollen X415

Stamen 7-8



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

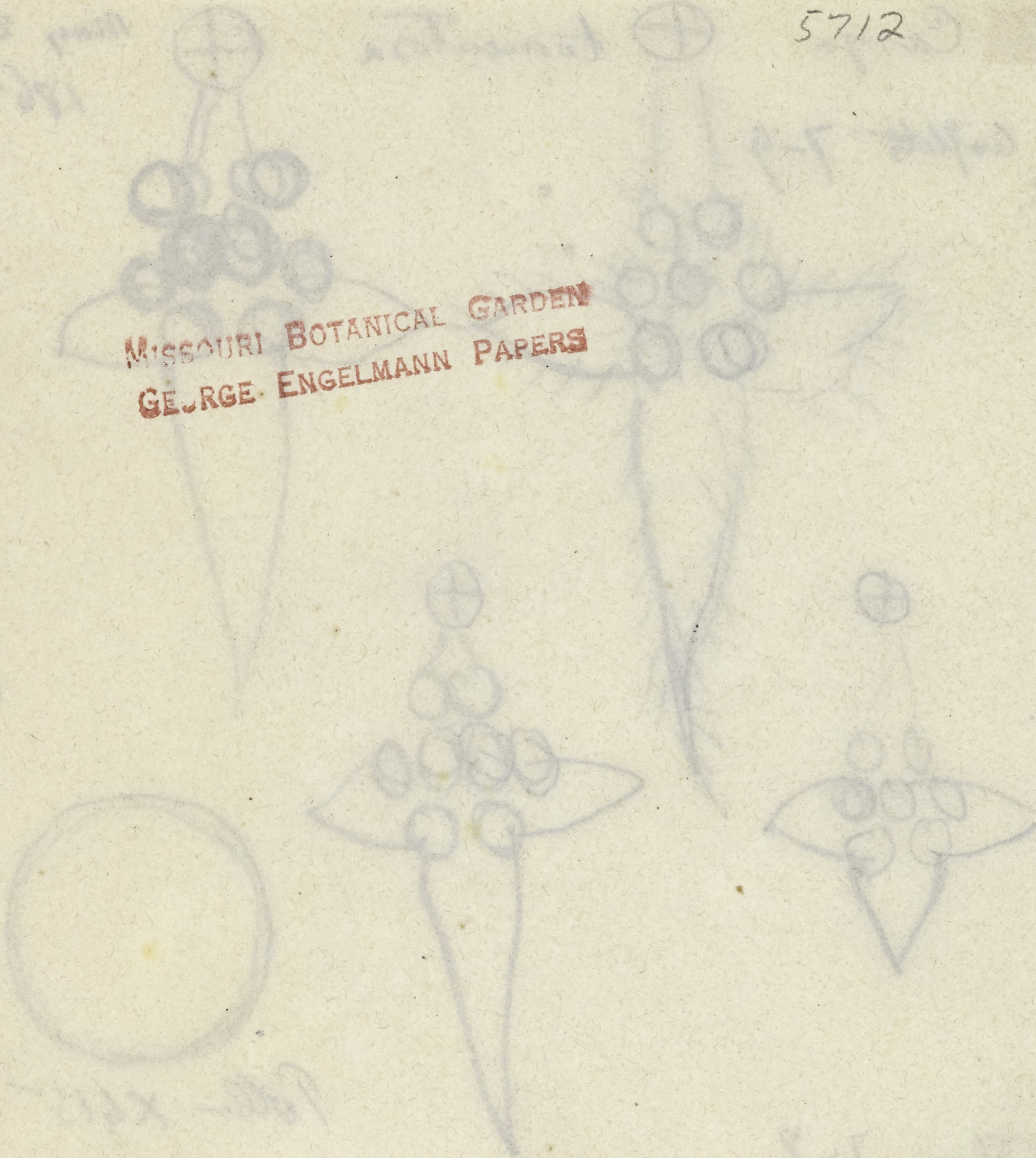
5712

CHEMIST

ALEX. LEITCH,  
APOTHECARY & CHEMIST,  
Cor. 4th and Olive Sts., St. Louis.

ALL THE NEW REMEDIES  
CONSTANTLY ON HAND

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN



Pollen  
X415

*Carya portina*

9-11 leaflets

glandular bloom

May 27  
1865



calyx glandular  
anthers with few  
scattered hairs

stam 4-5



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

5713

CHEMIST

ALEX. LEITCH,  
APOTHECARY & CHEMIST,  
Cor. 4th and Olive Sts., St. Louis.

ALL THE NEW REMEDIES  
CONSTANTLY ON HAND

MISSOURI BOTANICAL GARDEN  
PERS.



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

*Carya alba*  
*L. foetida* Arn.

May 14 1874

not yet in full bloom

Follen  
+ 415

May 17 bloom

anthers with a few  
hair

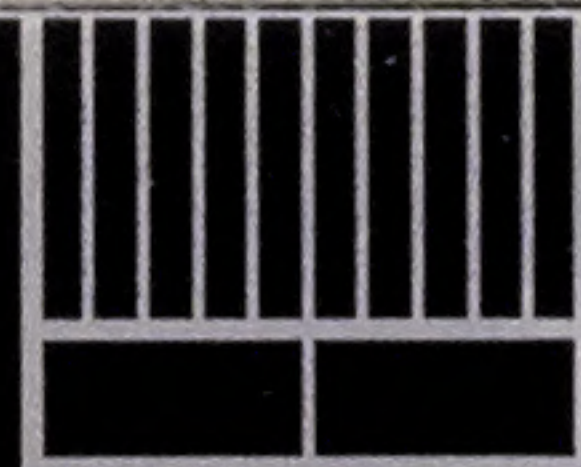
bracts not glandular

anthers hairy  
at tip



3 lobed bract  
with 4 anthers

bract sometimes entire



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

R. C. HARRISON,

508 Leffingwell Avenue,

Druggist & Apothecary

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

G. F. ENGLEMAN, M.D.,  
3003 LOCUST STREET.

5714



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

*Carya* (~~*Dryopteris*~~) *porrinea*

Stems

May 20 1874

not in full bloom yet



x100

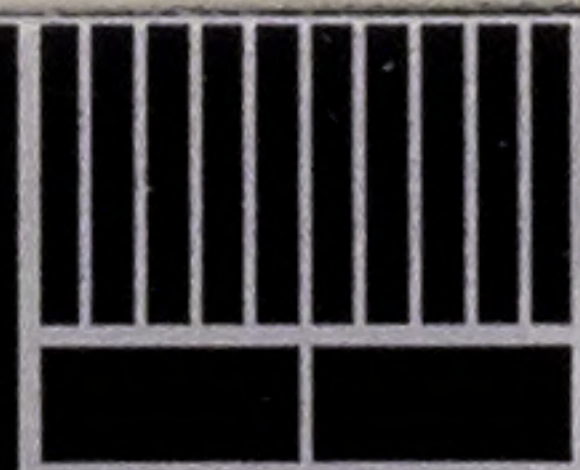


anthers hairy

bracts very  
gland. down  
outside

usually 4 anthers

rarely 5 anthers



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

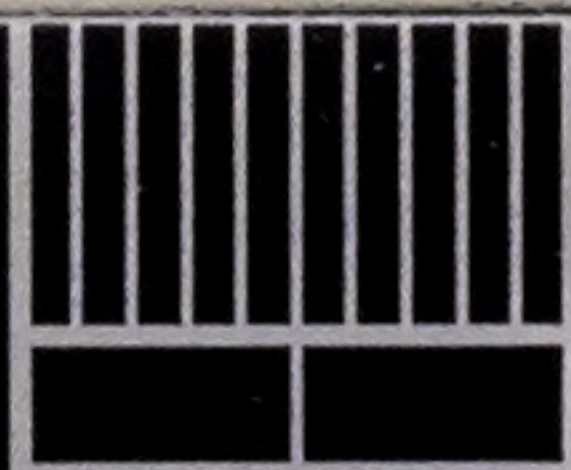
5715

STODDARD PHARMACY,

N. W. Corner Easton and Garrison Ave's.

POOLE & CO.

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

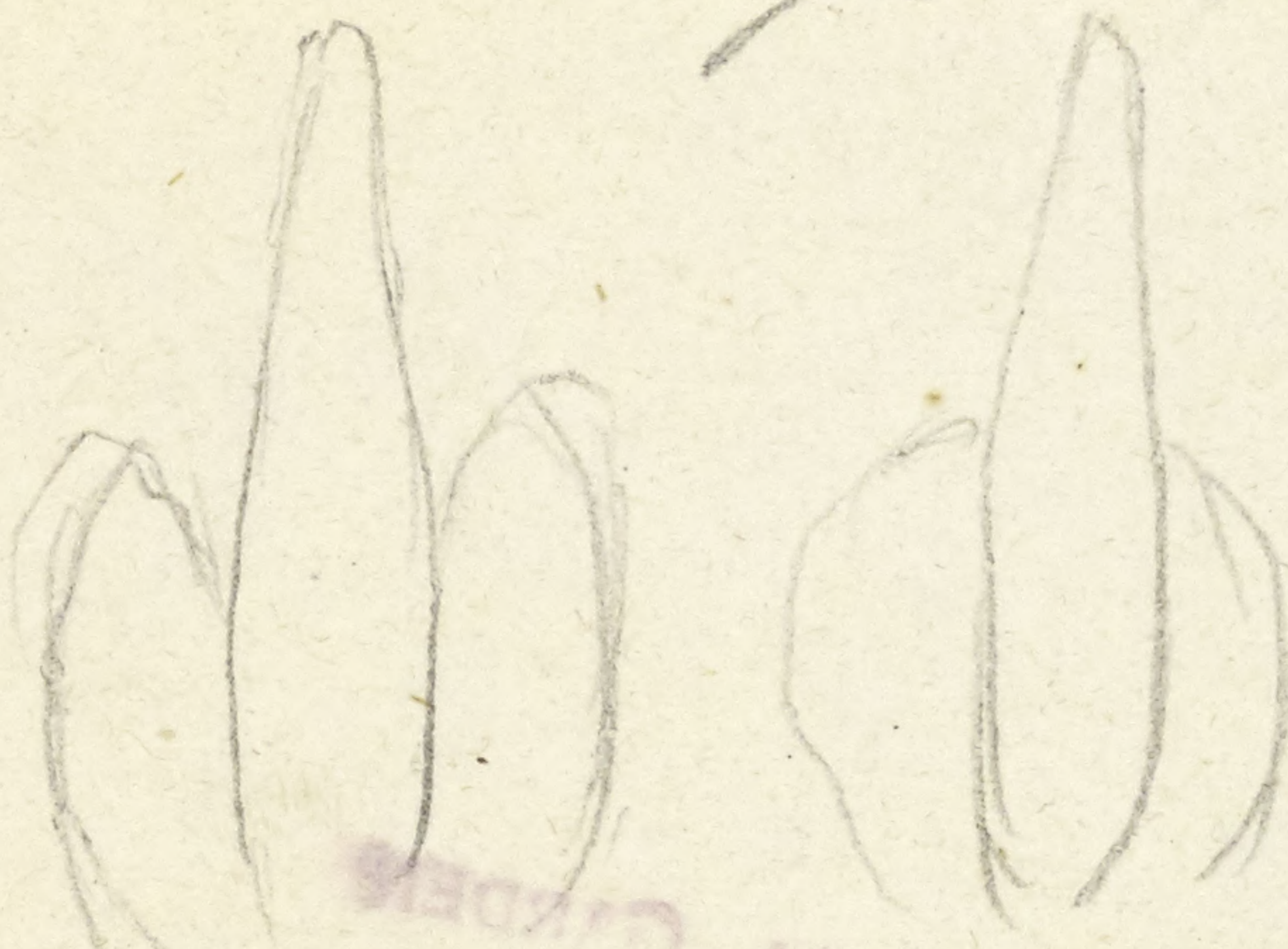
*Carya sulcata*

March 10 76

Ozarkian Ill

In the Mississippi  
Bottom

H. T. Brown



3 bracts, either united at base or  
lowest free, others united - or all free  
4 anthers, small



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

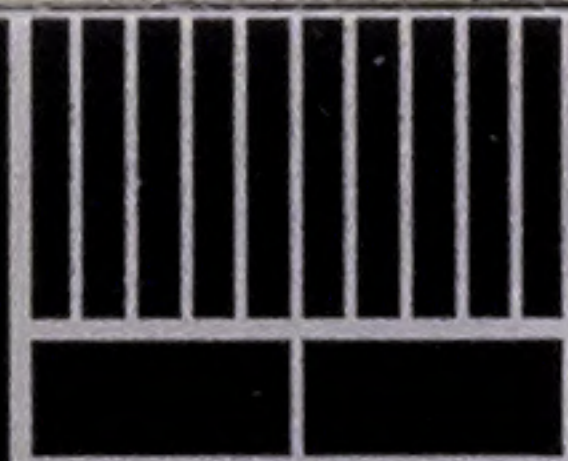
5716

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

7152

Carya

April 24 1876

Bluffton S. Car

D. McIlhenny

aments fallen



x4



HERBARIUM  
MISSOURI BOTANICAL GARDEN

Multiple Building Col. Com. H. & O. 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

5717

**ALEX. LEITCH,**  
**APOTHECARY & PHARMACEUTIST,**  
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

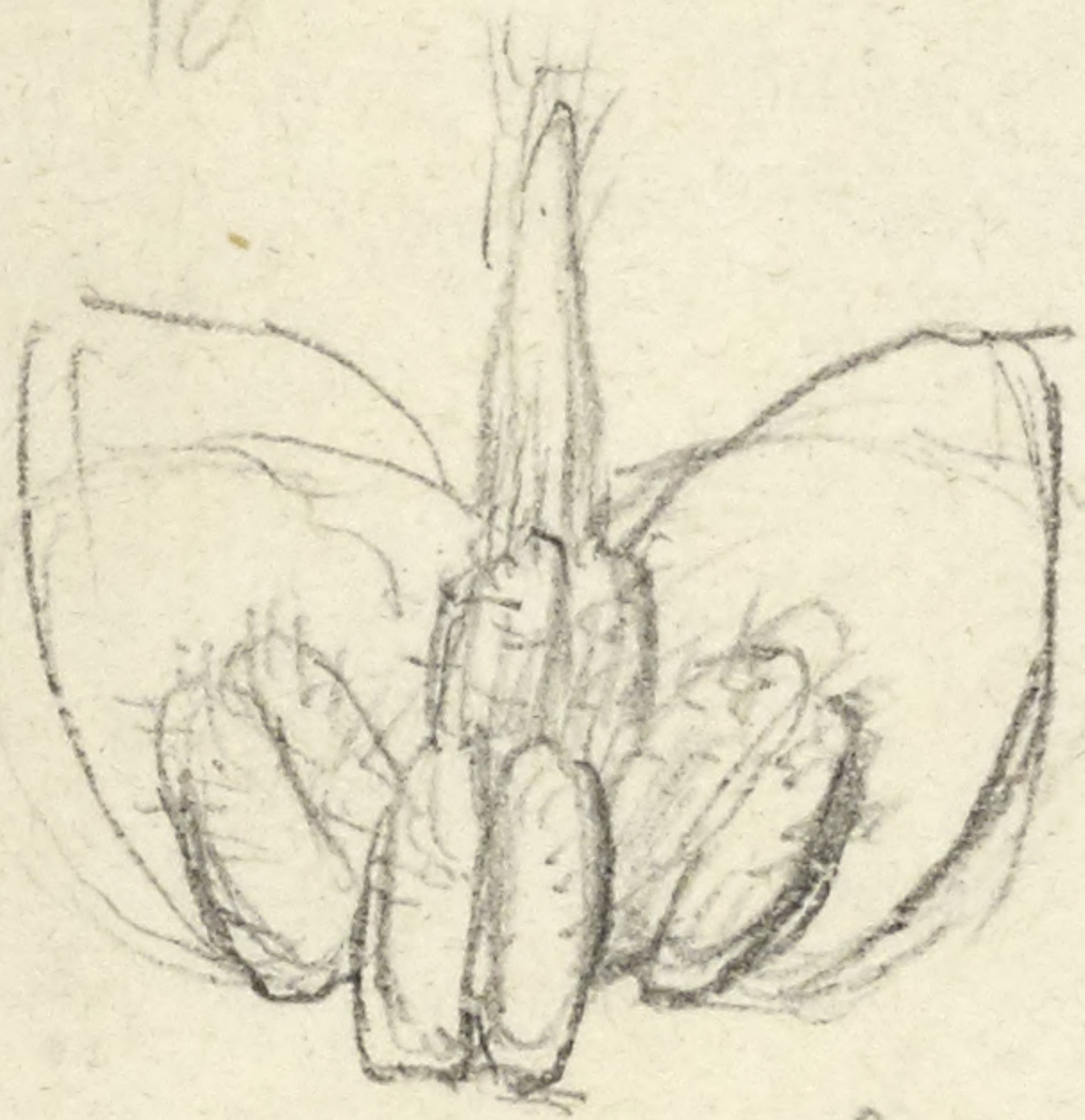


MISSOURI  
BOTANICAL  
GARDEN

Carya

Apr 28 1876

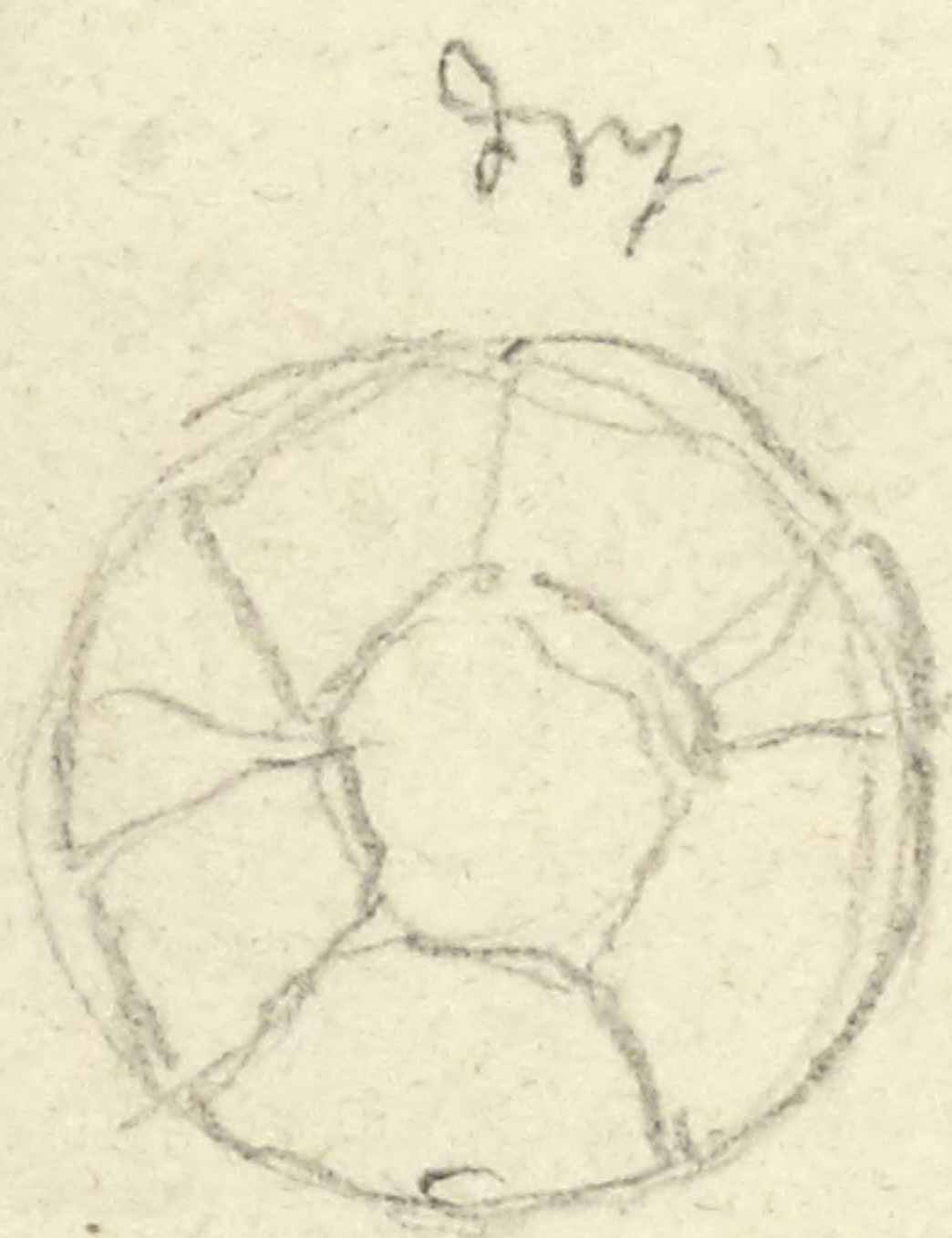
S. Canlin Dr. M. L. Champ



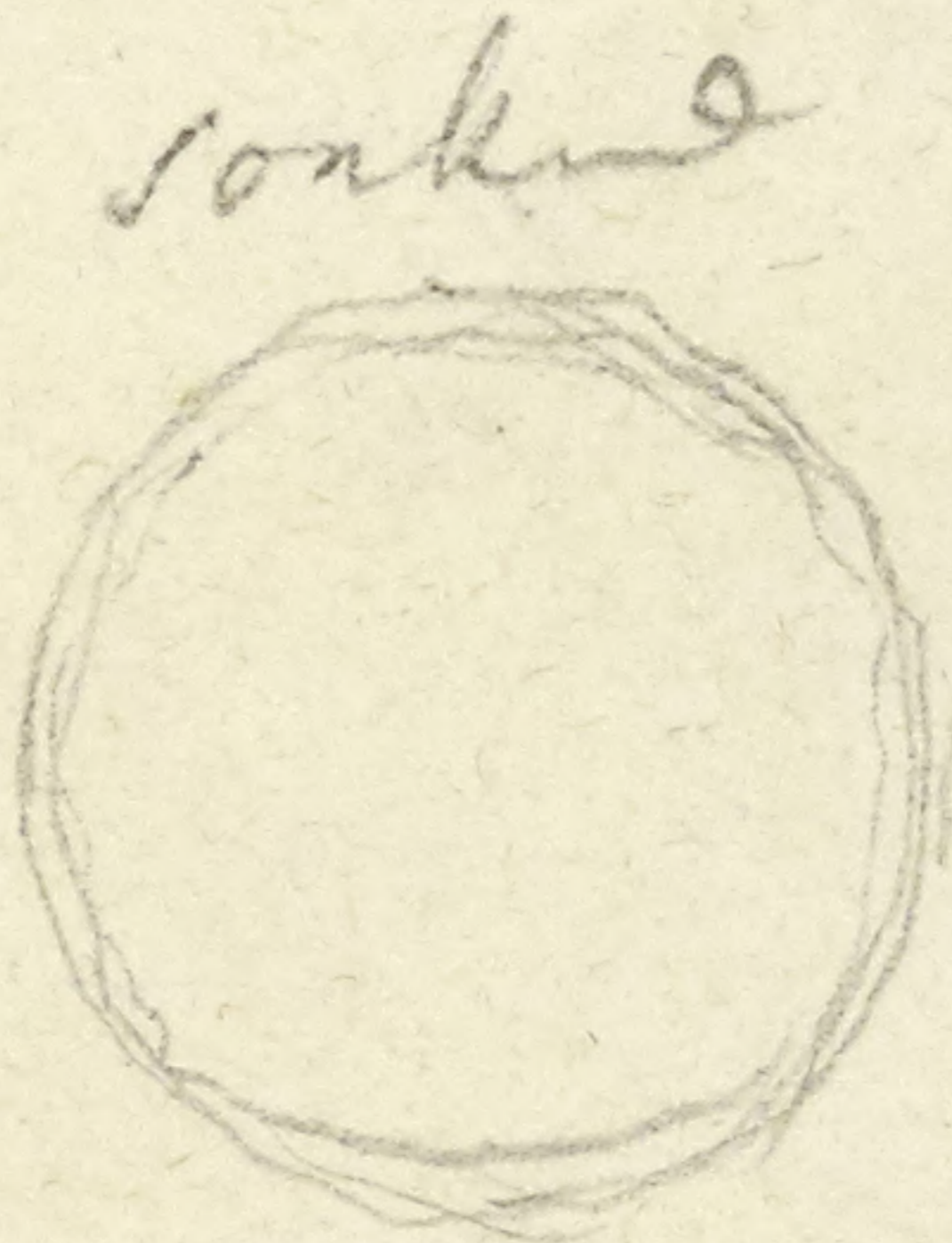
4-androm



glabular deciduous  
glands on back



x415



glands or secretions  
on outside of bract  
looks very much like Pollen!

real Pollen of  
unopened anther



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

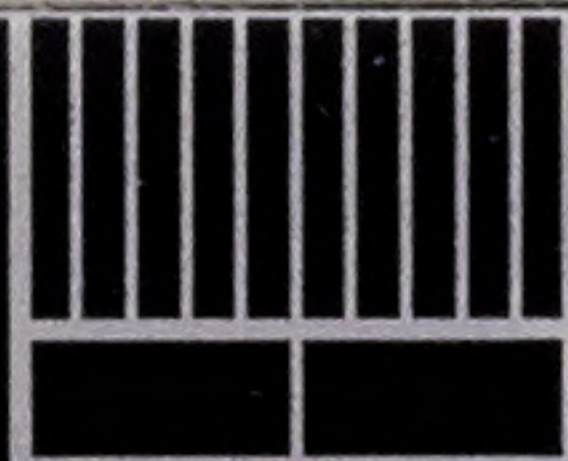


MISSOURI  
BOTANICAL  
GARDEN

5718

**ALEX. LEITCH,**  
**APOTHECARY & PHARMACEUTIST,**  
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



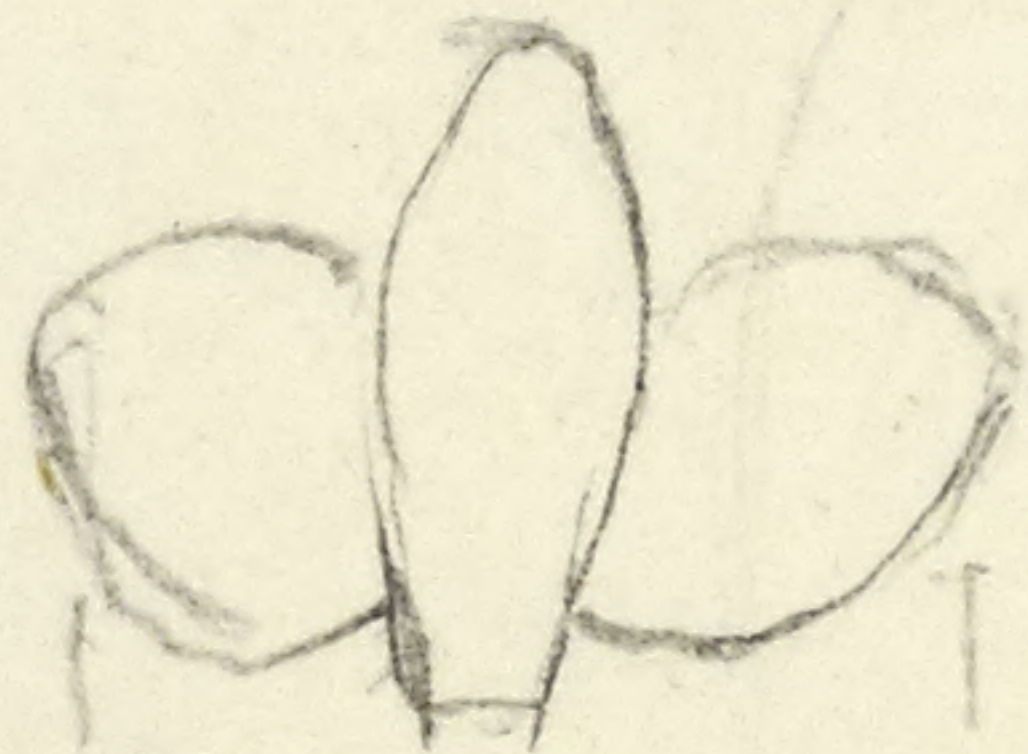
MISSOURI  
BOTANICAL  
GARDEN

1152 *Carya*  
S. Carol. Dr. M. S. H. H. H.

April 28

1876

x4



outside, glabrous  
or nearly so

x4



6 anthers



anther x10

upper part very hairy

x10



middle lobe narrow  
and short, nearly glabrous  
6 anthers very hairy  
upward



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

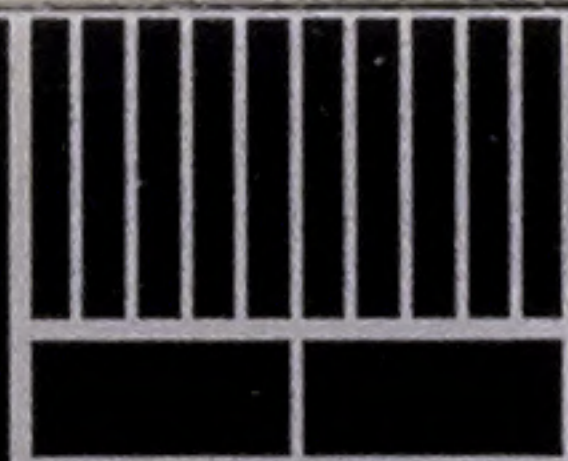


MISSOURI  
BOTANICAL  
GARDEN

5719

**ALEX. LEITCH,**  
**APOTHECARY & PHARMACEUTIST,**  
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

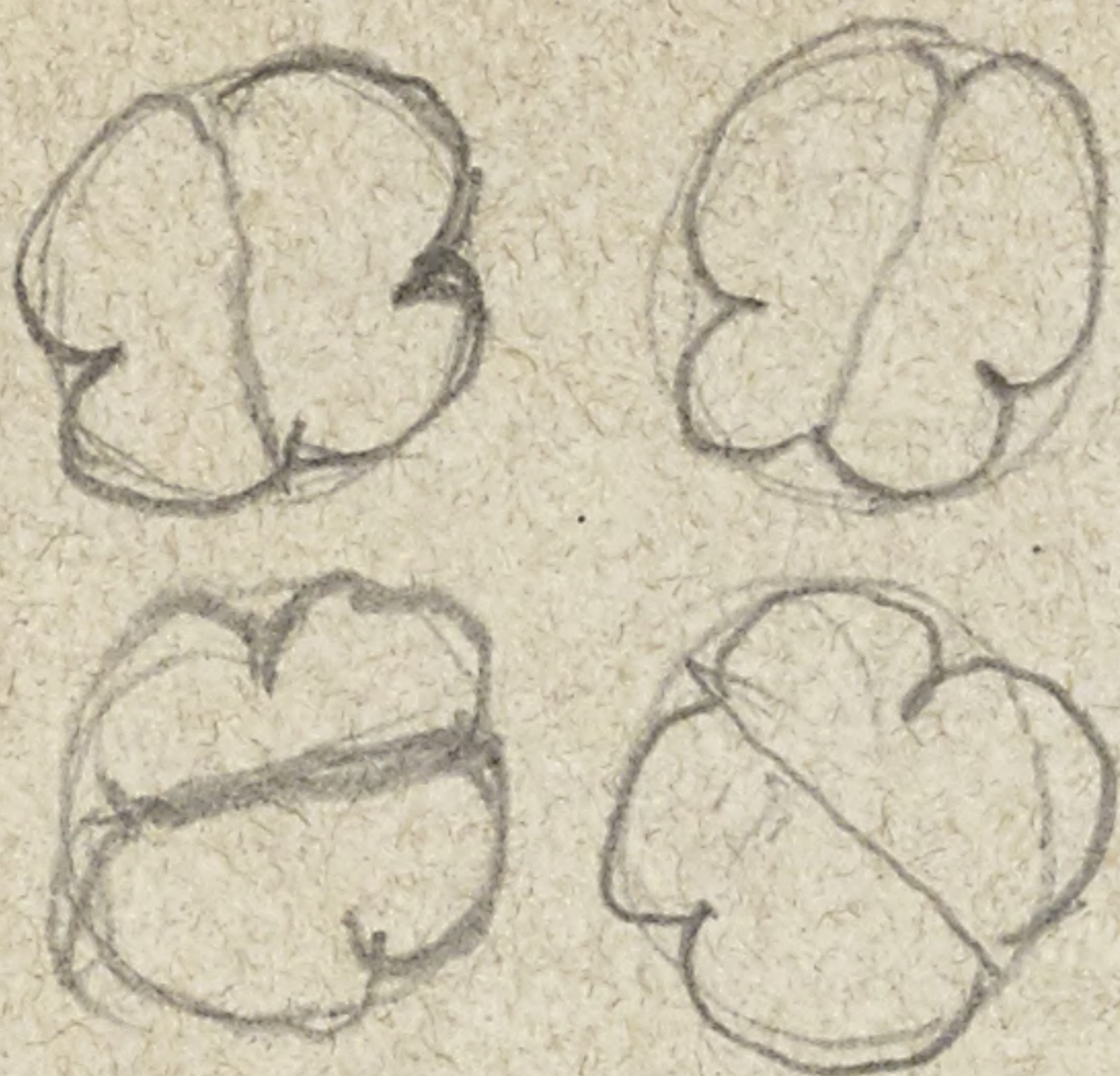
copyright reserved



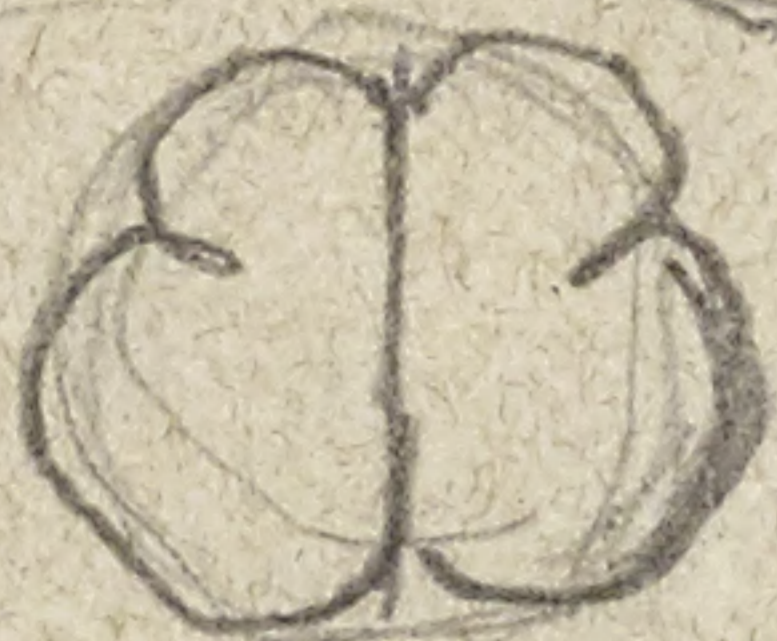
MISSOURI  
BOTANICAL  
GARDEN

*Anthus in Hirkovics*

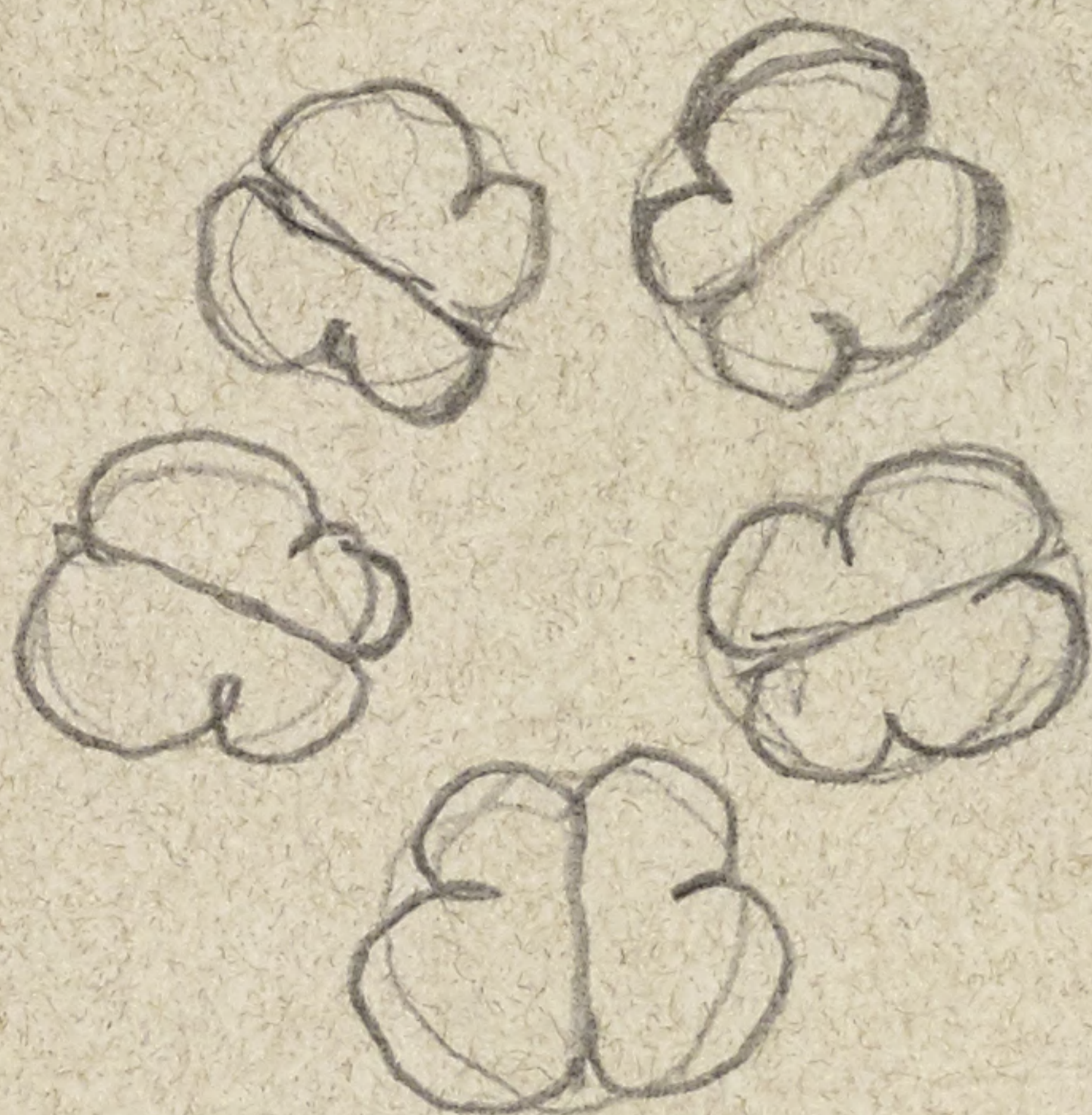
May 18 1876



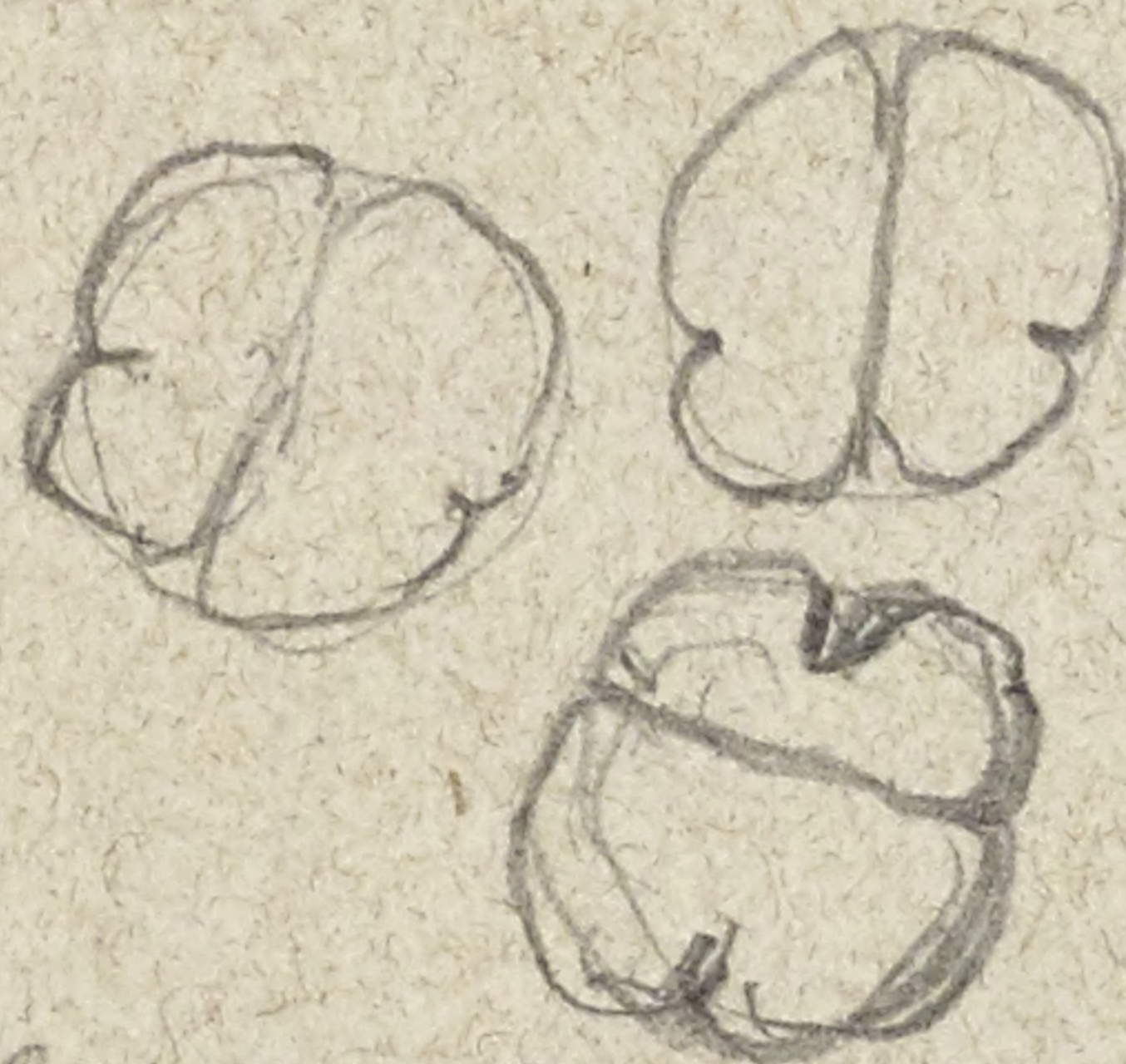
regular



case

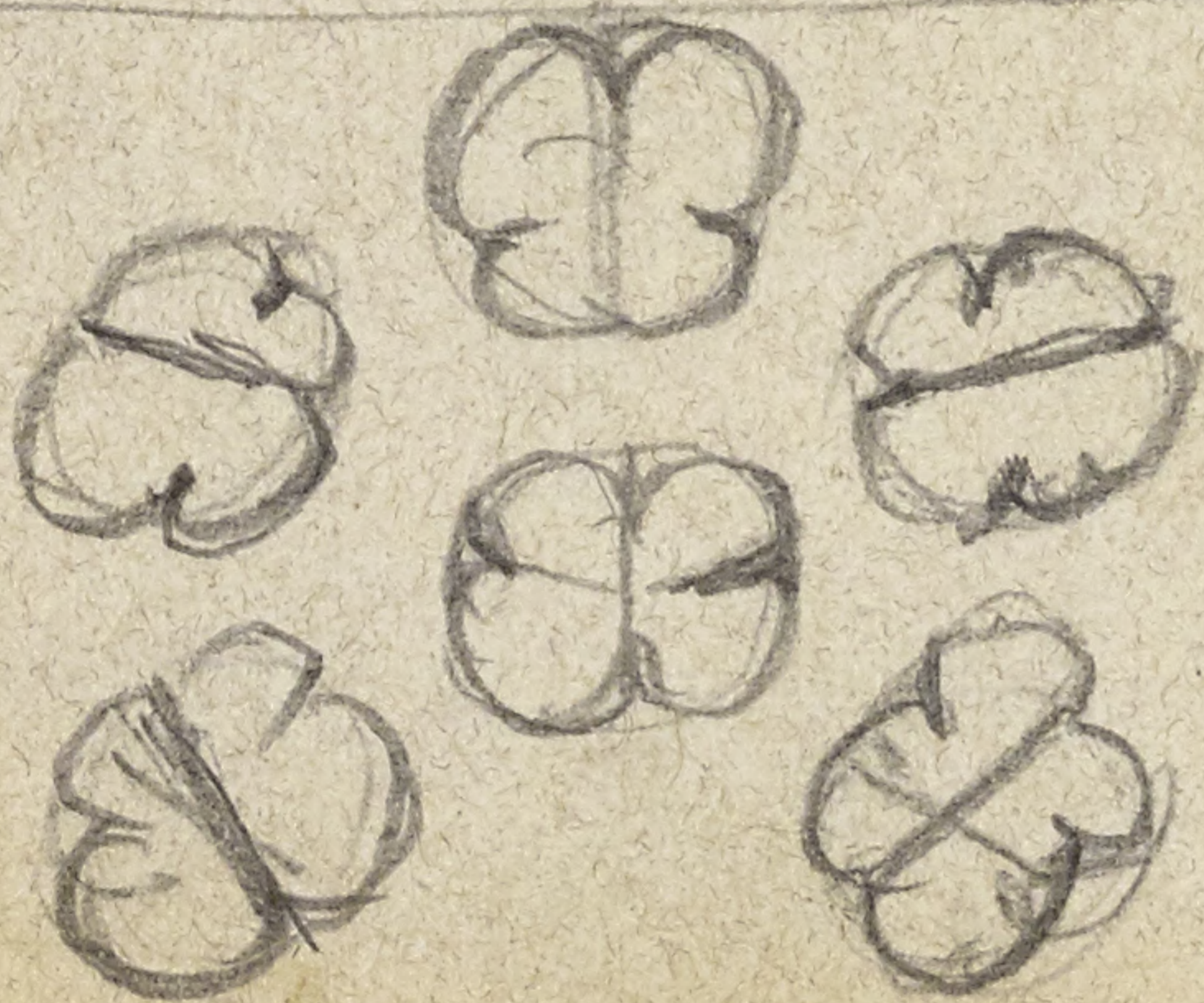


5 anthers



only in *C. amara*

where there are 4 anthers, 2 in front  
& 2 behind  
and when 3, 2 behind and one  
obliquely in front.



6 anthers



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

5720

CHEMIST

ALEX. LEITCH,  
APOTHECARY & CHEMIST,  
Cor. 4th and Olive Sts., St. Louis.

ALL THE NEW REMEDIES  
CONSTANTLY ON HAND

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

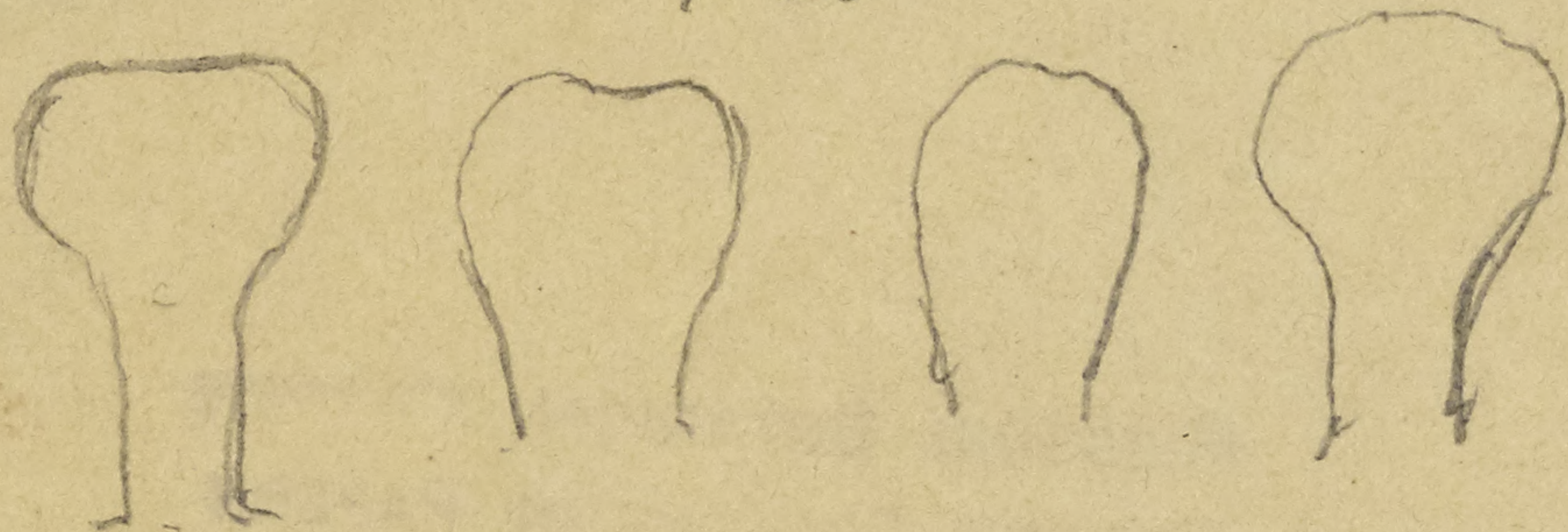


MISSOURI  
BOTANICAL  
GARDEN

*Carya porcina*

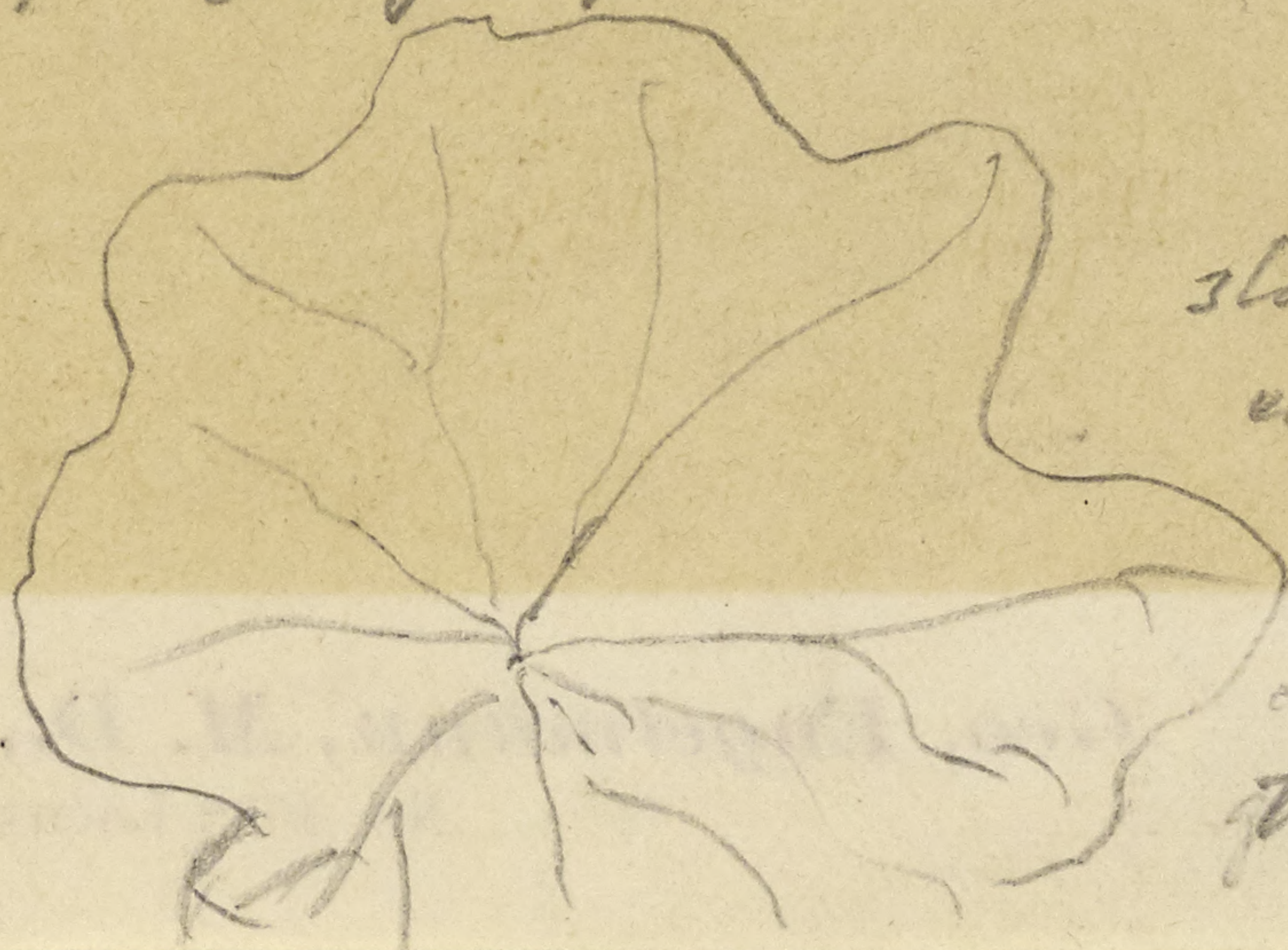
x 280

April 30 1878

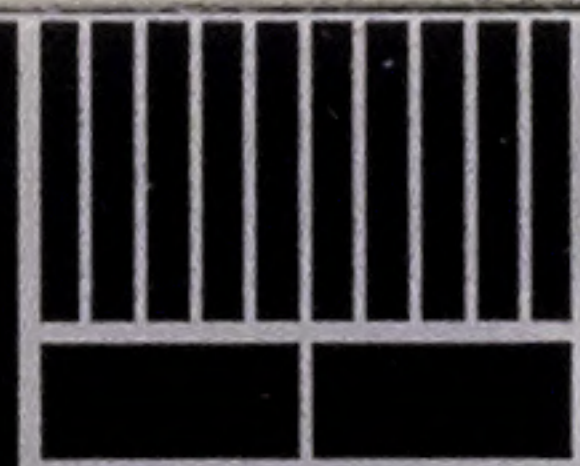


glands on outside of folded leaves in  
bud of *Carya porcina*, Canby No 4  
x 280

x 280



stellate scales,  
especially on  
leaves No 2  
mixed with  
the glands



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



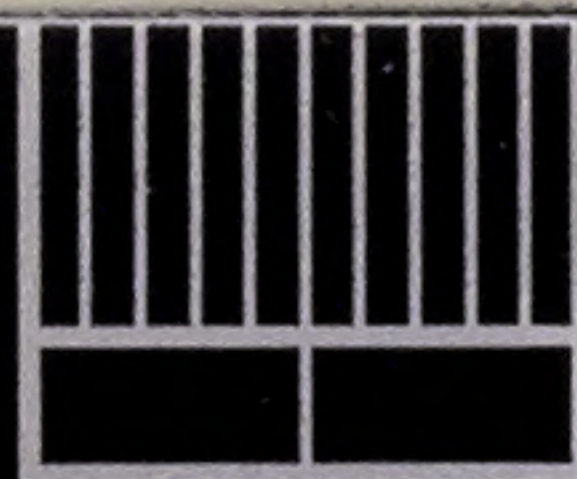
MISSOURI  
BOTANICAL  
GARDEN

5721

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

*Geo. Engelmann, M. D.,*

No. 3003 Locust Street,



0

1

2

3

4

5

6

7

8

9

10

cm

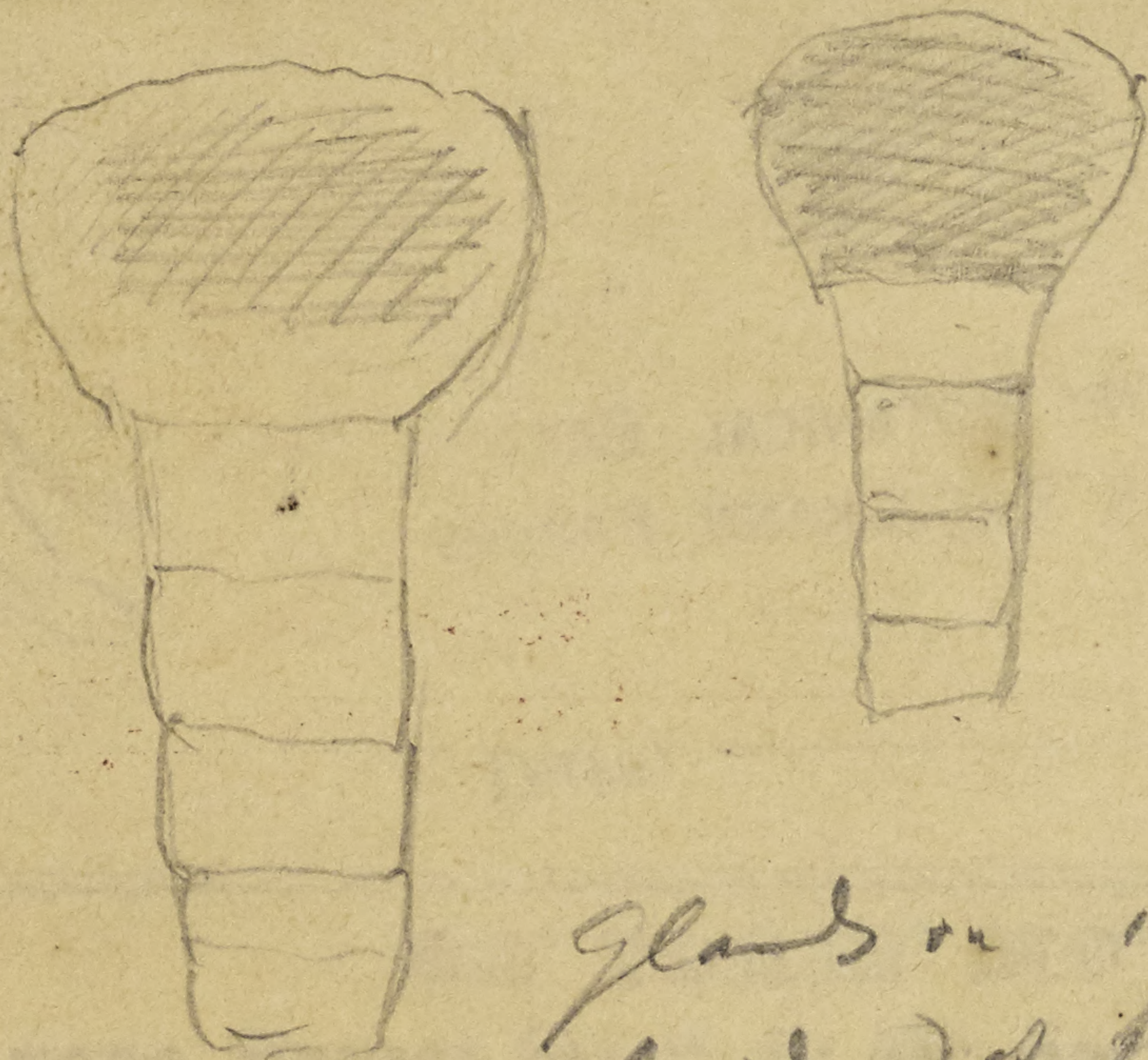
copyright reserved



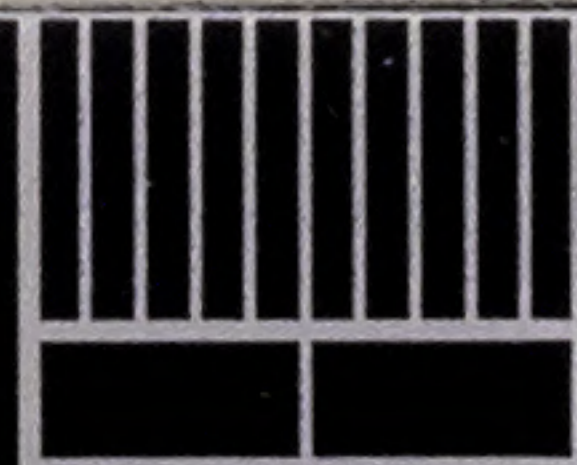
MISSOURI  
BOTANICAL  
GARDEN

Carya toment. x 280

April 30 1878



Glands on inside (none  
on outside) of folded leaves  
of sp. No 3 sent by  
Canby



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

5722

MISSOURI BOTANICAL GARDEN  
SERGE ENGELMANN PAPERS

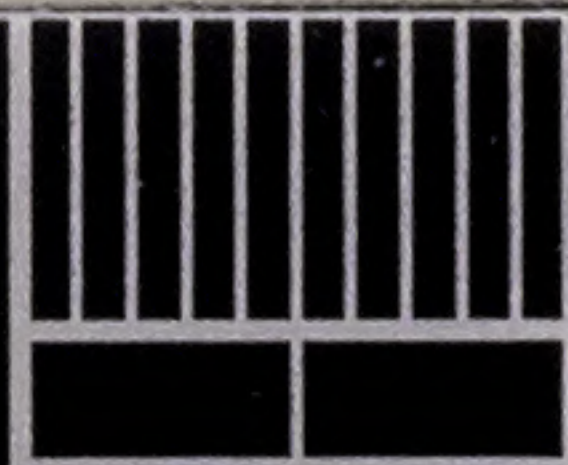
*L*

No. \_\_\_\_\_ Date, \_\_\_\_\_ 187

No. 2600 Laclede Ave., S. W. Cor. Jefferson Ave.,  
ST. LOUIS, MO.

APOTHECARY,

HENRY T. BOHLEN,



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

Cambridge

Oct 14

96

Carya amara West New York, pubescent in fl. state

Augusta Ill. slightly pubescent

Orange, N. J. pubescent in August

Oakes, Massachusetts " in fl.

Houston Texas 592 E. Hall 9 leaflets,

extreme broad ovate, slight pubescence

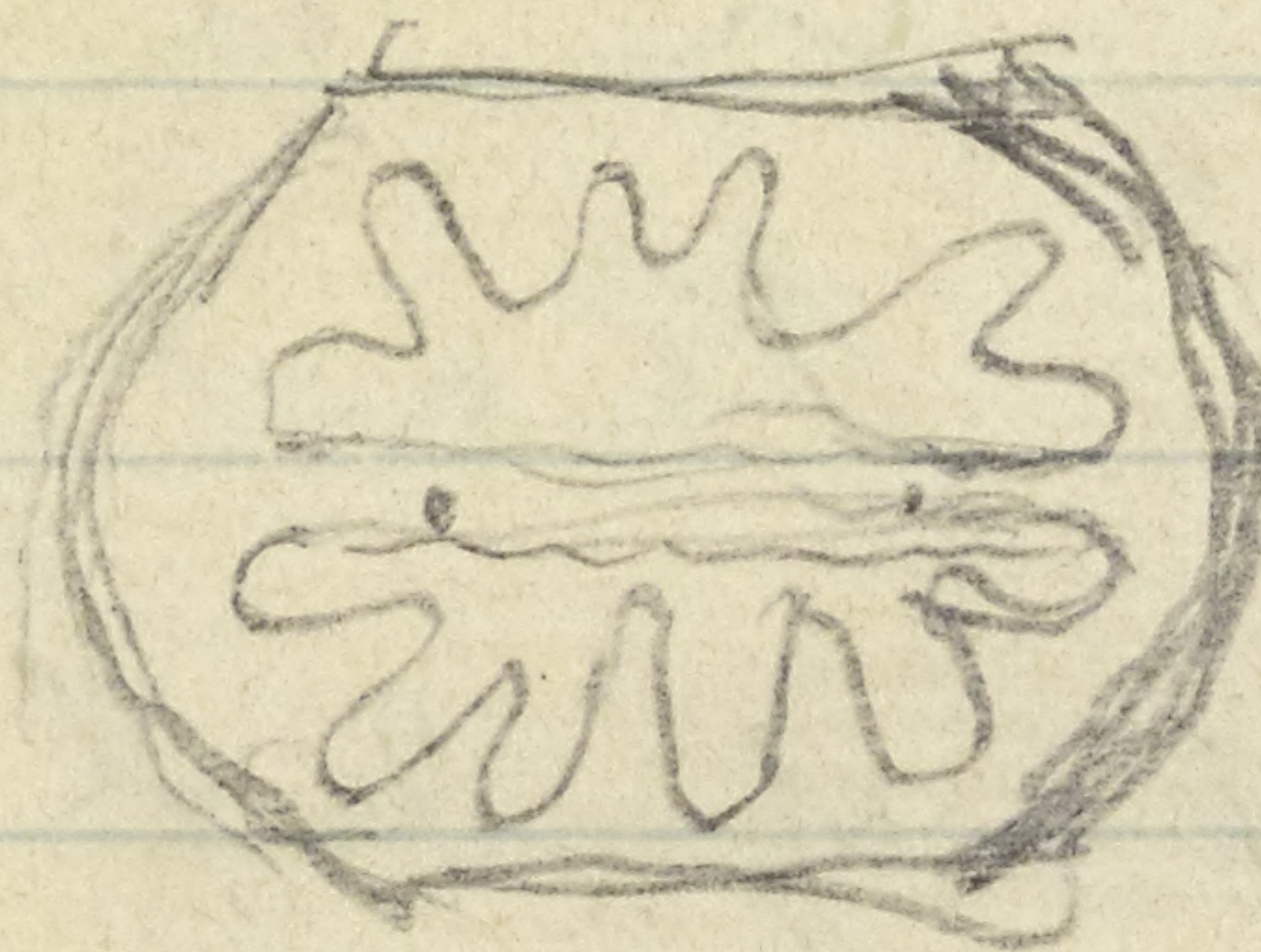
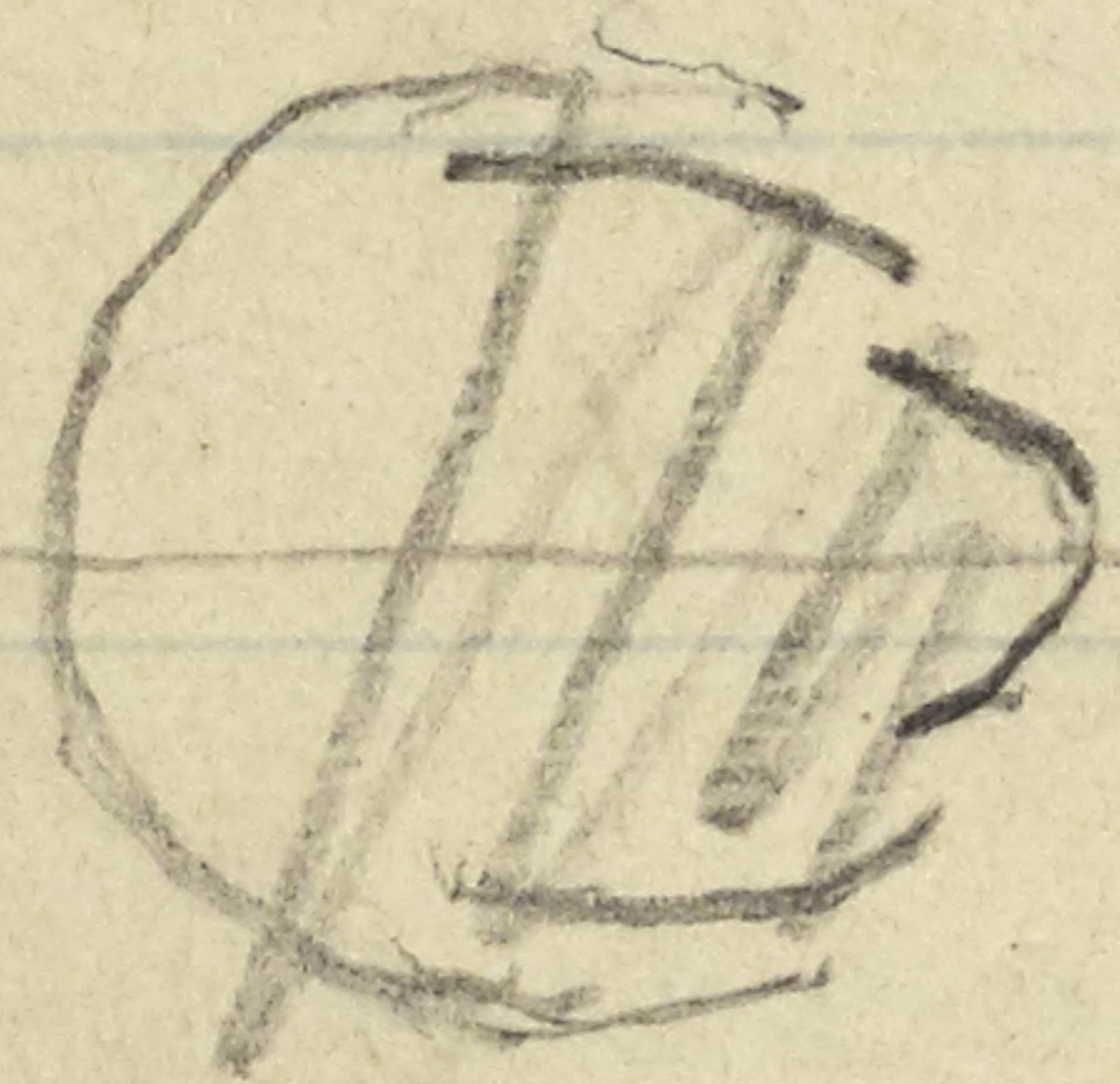
(fl 9 leaflets, usually lanceolate acuminate)

Carya microcarpa Canby 1872 info (same as sent to me = parvifolia)

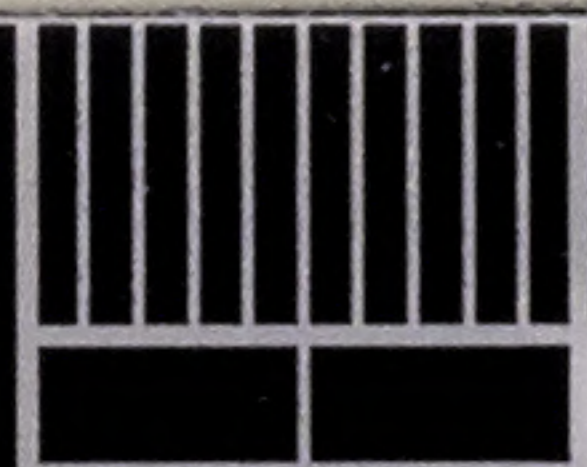
Closter N. J. Aust only nut, seems to be floridula

Carya sulcata Ohio, Mich - an elongated nut,

sharp pointed both ends, large



Cage with fl 11 leaflets



0  
cm

1

2

3

4

5

6

7

8

9

10

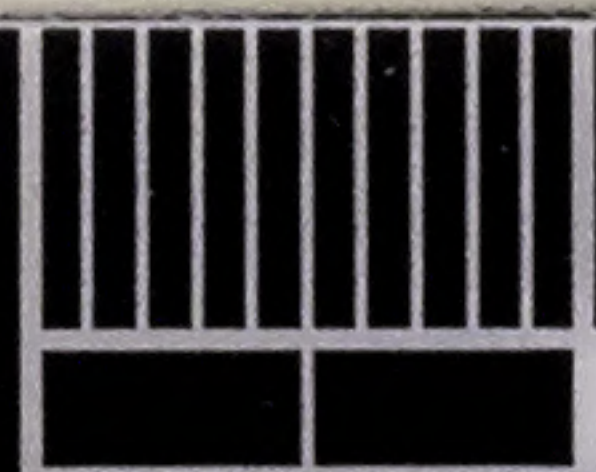
copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

2. Ansonia, Corolla villous-bearded  
 at the orifice; the lobes from ovate to linear,  
 sinistrorsely convolute. Anthers ovate  
 or oblong-lanceolate, obtuse. Style  
 filiform; stigma capitate, ~~apical~~ =  
~~aged~~ ~~per~~ girt underneath by a  
 reflexed membrane. Capsules many-  
 angled, becoming slender terete and  
 often to rose erect follicles, several-  
 seeded. Seeds cylindraceous-oblong,  
 obliquely truncate at both ends,  
 packed in a single row; the coat  
 corky. Radicle superior. Herbs.

\* \* Disk of 2 large glands alternate with  
 the capsules. <sup>Stigma hairy-tipped</sup>  
 Leaves opposite.

0  
cm

1

2

3

4

5

6

7

8

9

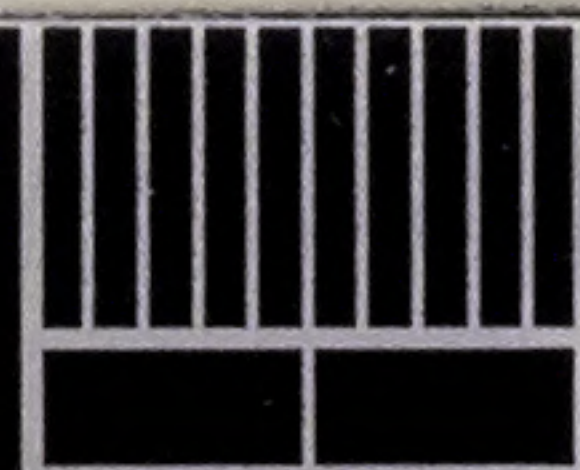
10

copyright reserved

MISSOURI  
BOTANICAL  
GARDEN

*Carya alba* has regularly 5 leaflets, never more  
*C. sulcata* 7 leaflets  
*C. tomentosa* and  
*C. porriana* have from 5 to 9 leaflets, often on  
same tree

G. W. Litterman May 15 1876



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

*J. G. S.*

*m. b.*

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

*Documents*

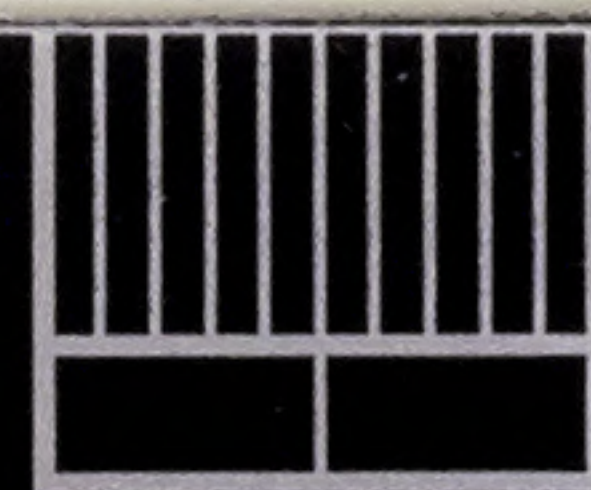
Department of the Interior,

Washington, May 10<sup>th</sup> " , 1876.

*Sir:*

*I have the honor to send to your address. by mail. this day. one*

5724



0  
cm

1

2

3

4

5

6

7

8

9

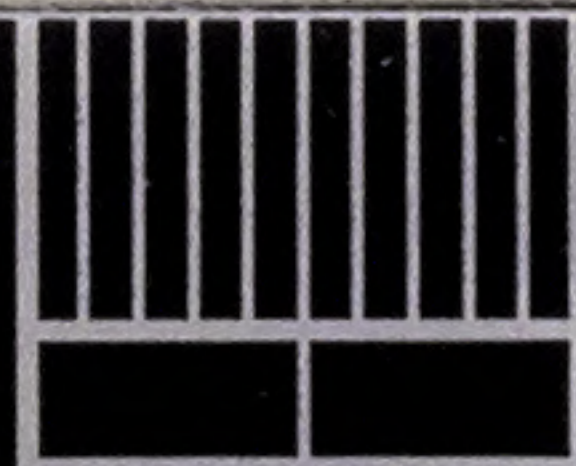
10

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

Gong Horkory  
has no family sp.  
of Peara  
C. myrsiniformis has  
buds and <sup>trifoliate</sup> leaves  
: like porria  
only fruiting sp. have  
perianth rather thin  
C. agantoides has ♂  
like annua  
pubescent, when young



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

5725

*Primati-partitis*  
*integerrimis*  
*laetis*  
*paucis*

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

Hickoria Texana

de Conte Proceed.

Acad Phil. 185<sup>2</sup>/<sub>3</sub>

vol VI. p. 402

a Pecan nut collected  
- Georgia for Texan seeds



Common Pecan

Texana



0

1

2

3

4

5

6

7

8

9

10

cm

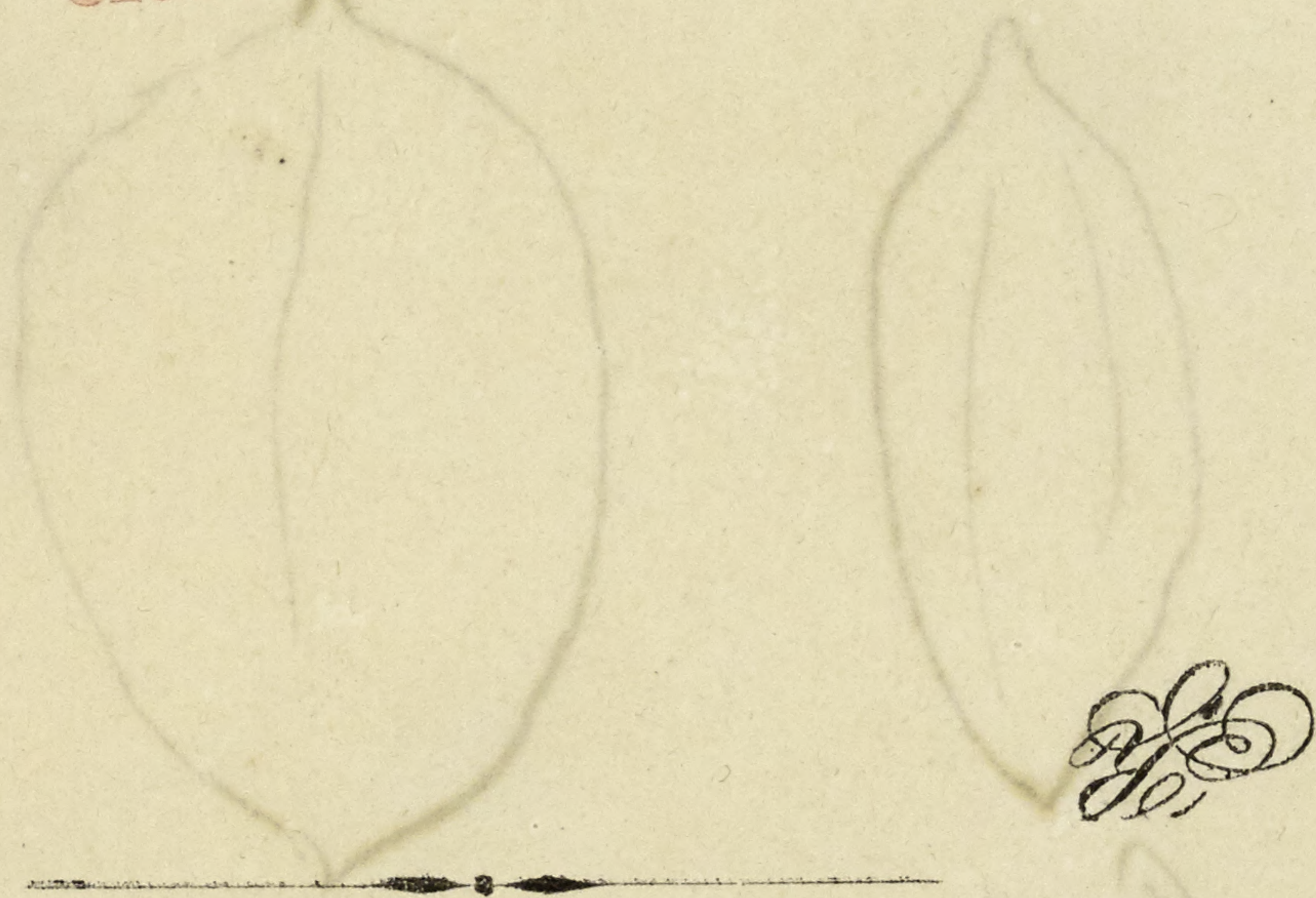
copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

5726

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



SAINT LOUIS.

A. ARMFIELD & CO.,  
—Pharmacutists and Druggists,—  
South-east corner Seventh and Olive Streets,



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN